

# LIFE



AUTO WORKER

SEPTEMBER 10, 1945

10 CENTS

BY SUBSCRIPTION: TWO YEARS \$8.50



# BACK HOME FOR KEEPS



JOY... joy... joy! The sun and the moon and the stars. The big shining world with a white fence around it. There's a great day coming... when he's BACK HOME FOR KEEPS.

And there's a good day just around the corner for brides who have waited for their favorite silverware. Community, too, will soon be back at your jeweler's. Back to lend its gleaming beauty to your first breakfast for two, your first dinner at home... craftsman-created for a lifetime of loveliness.

Every fork, every spoon, overlaid with extra silver at hard-wear points. Wait for Community... it's silverware you'll love for keeps!

**Community**  
THE FINEST SILVERPLATE



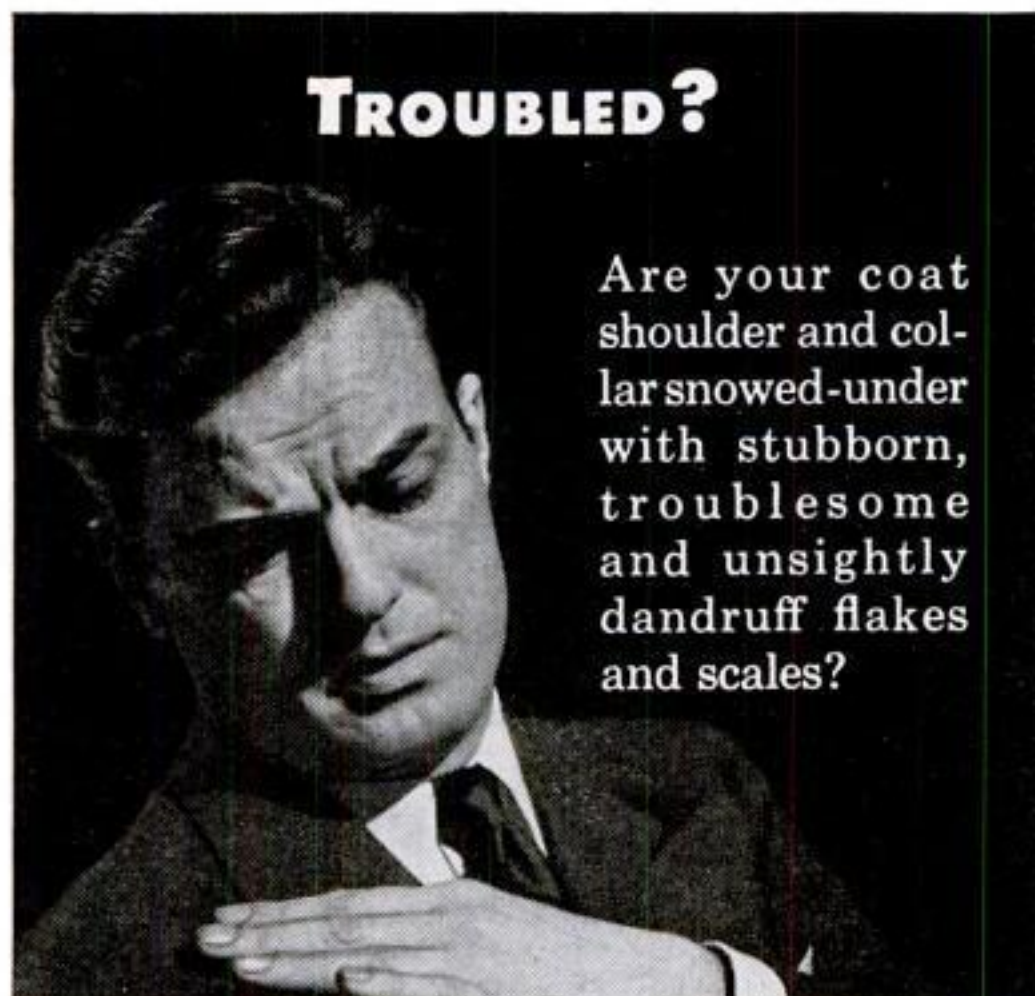
*If it's Community... it's correct*

\*TRADE MARK COPYRIGHT 1945 ONEIDA LTD

**FREE!** If you would like a full-color reproduction of this painting, without advertising, write COMMUNITY, Department N, Oneida, New York

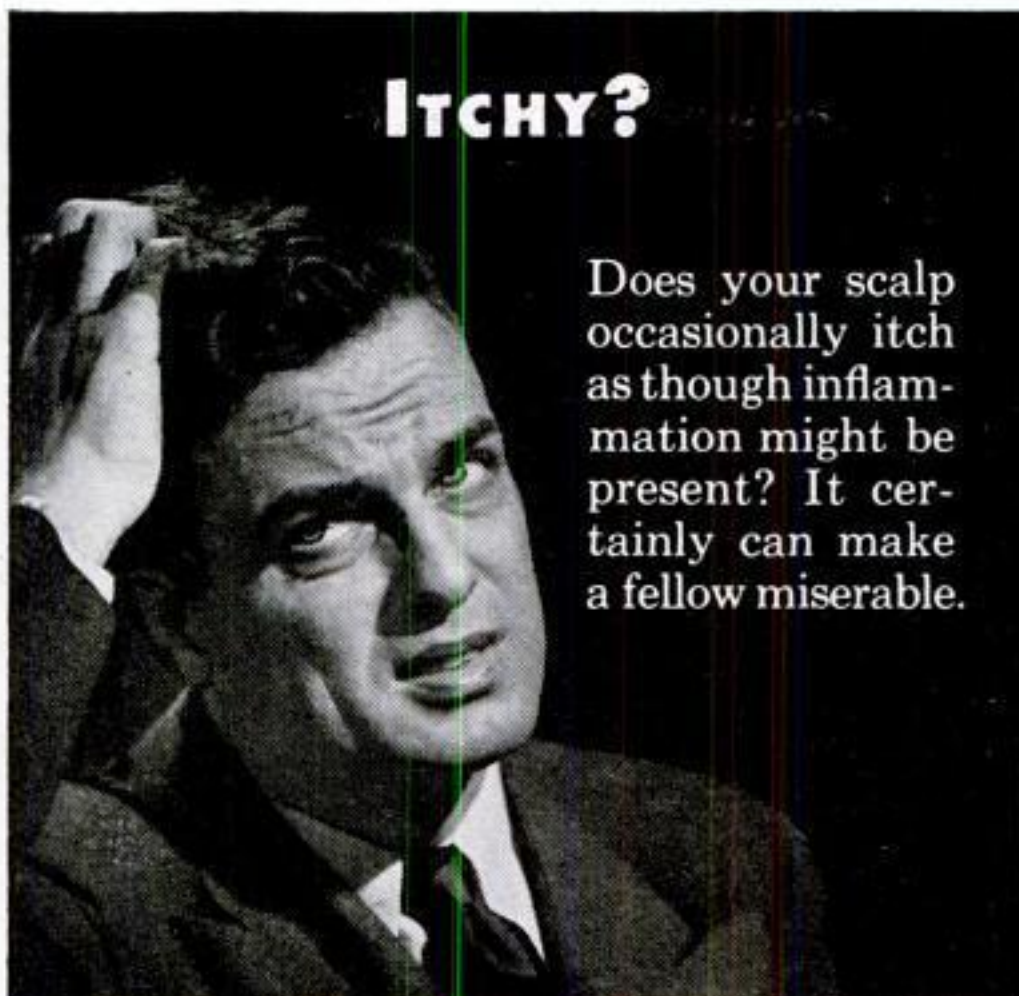


## TROUBLED?



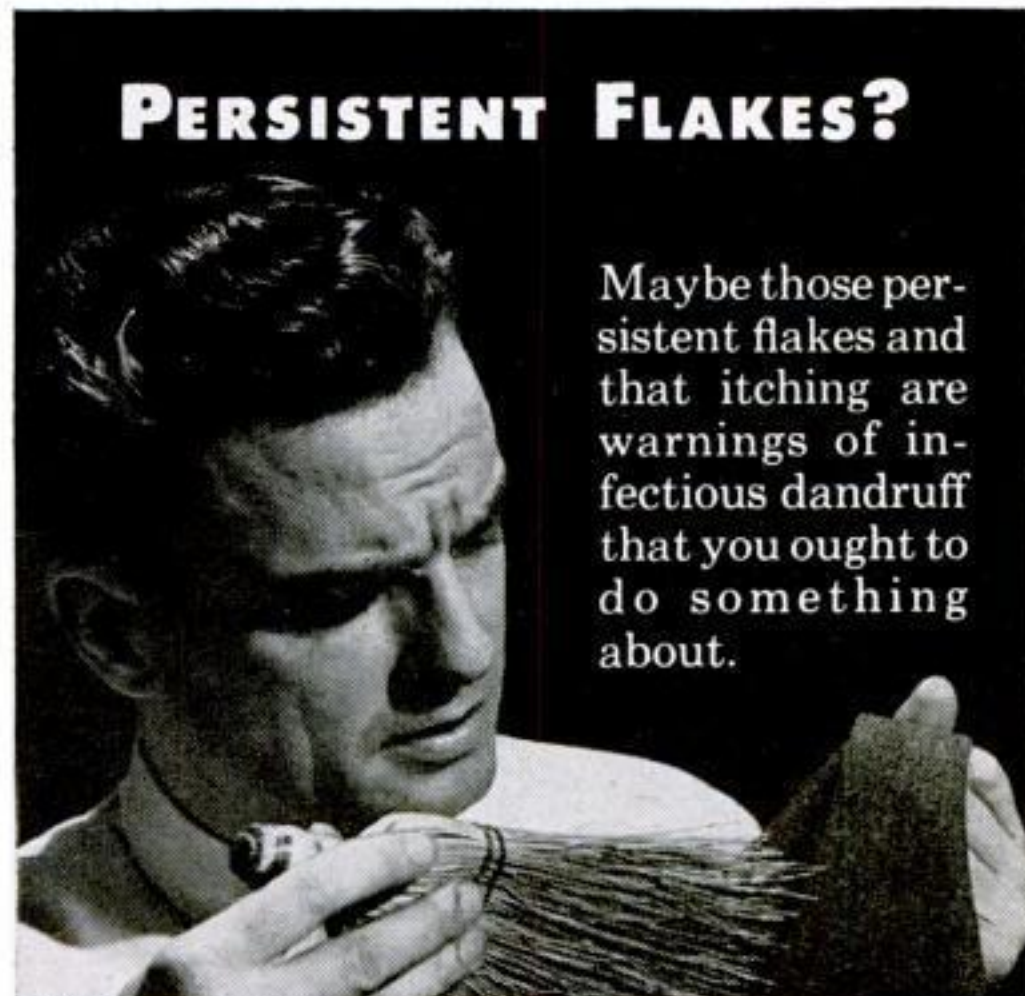
Are your coat shoulder and collar snowed under with stubborn, troublesome and unsightly dandruff flakes and scales?

## ITCHY?



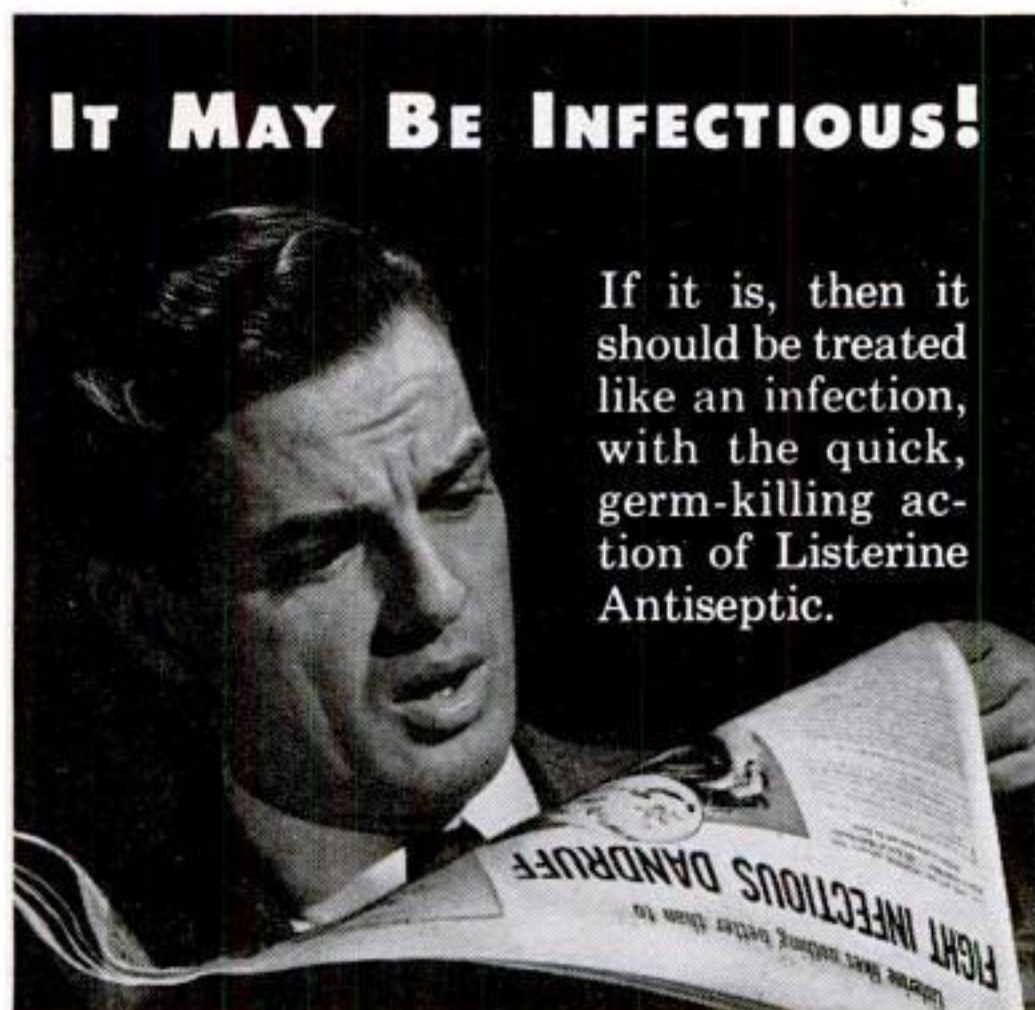
Does your scalp occasionally itch as though inflammation might be present? It certainly can make a fellow miserable.

## PERSISTENT FLAKES?



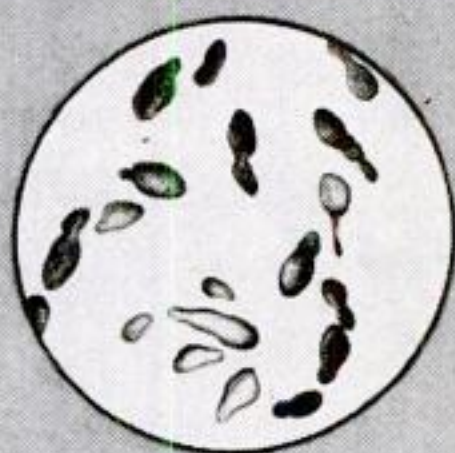
Maybe those persistent flakes and that itching are warnings of infectious dandruff that you ought to do something about.

## IT MAY BE INFECTIOUS!



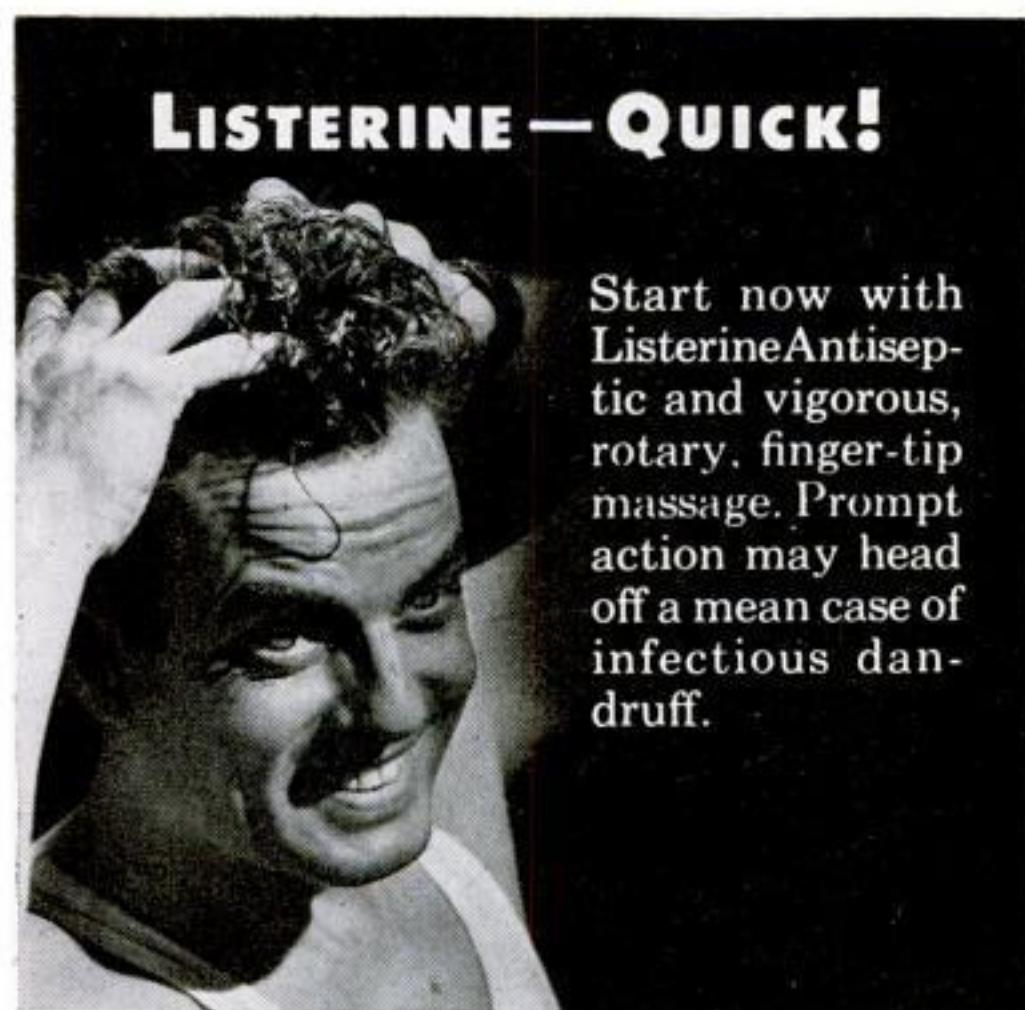
If it is, then it should be treated like an infection, with the quick, germ-killing action of Listerine Antiseptic.

## THE "BOTTLE BACILLUS"



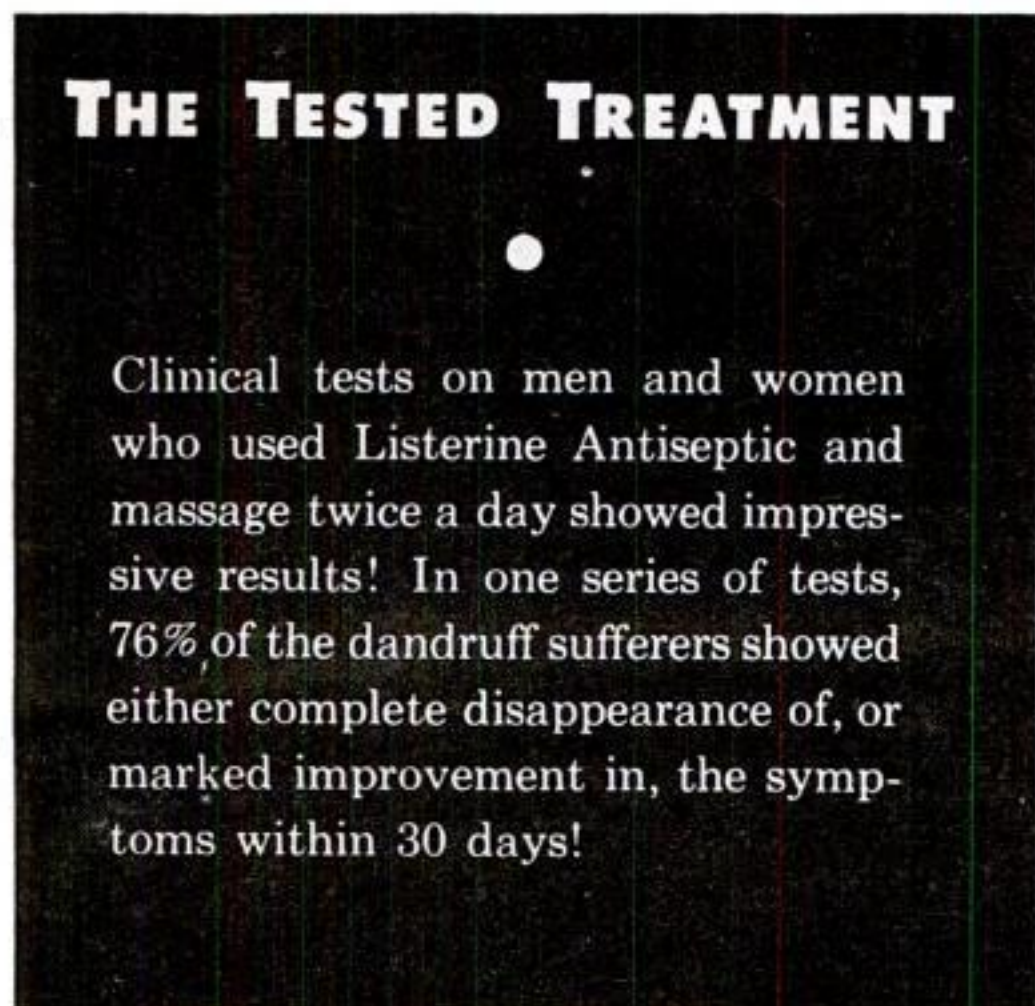
This is the "Bottle Bacillus" (*Pityrosporum Ovale*), a stubborn and highly resistant germ that many a noted dermatologist regards as a causative agent of infectious dandruff.

## LISTERINE—QUICK!



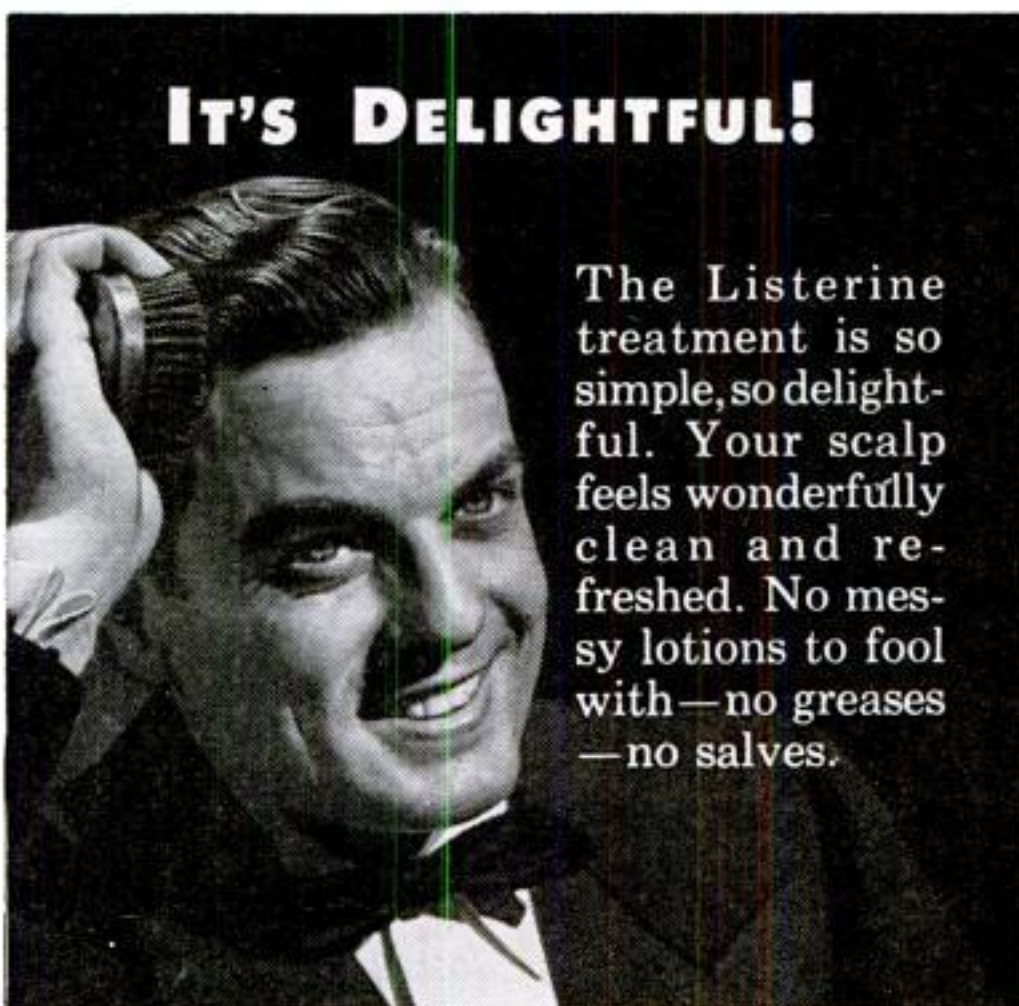
Start now with Listerine Antiseptic and vigorous, rotary, finger-tip massage. Prompt action may head off a mean case of infectious dandruff.

## THE TESTED TREATMENT



Clinical tests on men and women who used Listerine Antiseptic and massage twice a day showed impressive results! In one series of tests, 76% of the dandruff sufferers showed either complete disappearance of, or marked improvement in, the symptoms within 30 days!

## IT'S DELIGHTFUL!



The Listerine treatment is so simple, so delightful. Your scalp feels wonderfully clean and refreshed. No messy lotions to fool with—no greases—no salves.

## PRESENTABLE AGAIN!



What wonderful relief! Your scalp feels cleaner and your hair looks better.

# Get after Infectious Dandruff with Listerine Antiseptic Now!

Clinic and everyday use show Listerine Antiseptic's value against this scalp condition which affects so many.

Don't fool around with what may be a troublesome condition! If you are irritated, disturbed by the distressing, uncomfortable symptoms of infectious dandruff, start your home Listerine Treatment today . . . the medical treatment thousands use.

Just apply full strength Listerine Antiseptic to your scalp morning and night. Massage the scalp and hair vigorously, persistently. It's as easy as it is delightful.

Cooling, soothing Listerine Antiseptic—the same Listerine which has been famous for over 60 years in the field of Oral Hygiene—kills millions of germs associated with the infectious type of dandruff . . . including the queer "bottle bacillus", called *Pityrosporum Ovale*, which

many outstanding specialists recognize as a causative agent of infectious dandruff.

Remember, the Listerine Antiseptic treatment within 30 days brought complete disappearance of, or marked improvement in, the symptoms of dandruff to 76% of the men and women who used it in a clinical test. Start today to see what it does for you!

LAMBERT PHARMACAL COMPANY, St. Louis, Mo.



BDC1-6AJ-AQZB



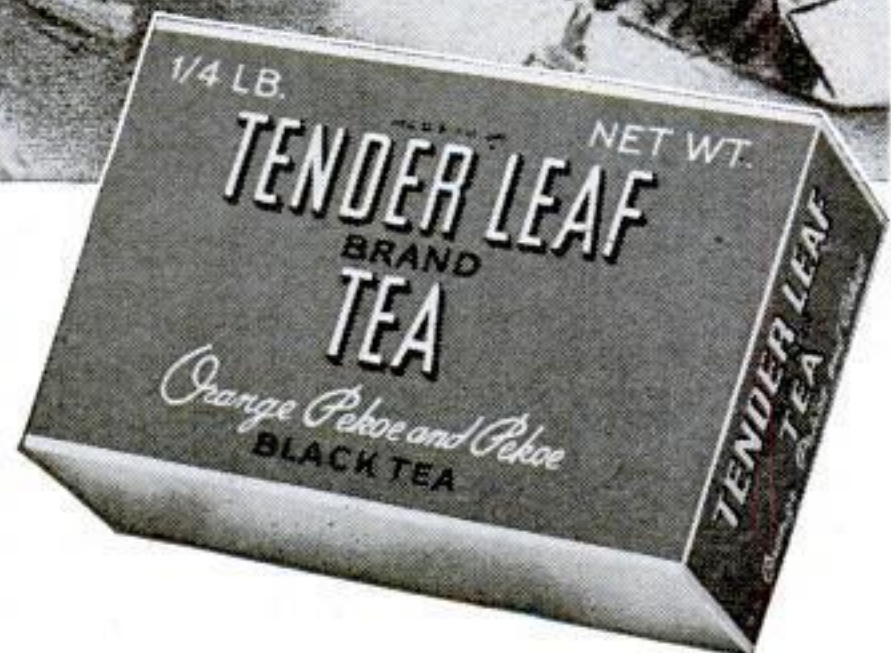
When the job's all done...  
and you're all in...



There's *Quick Comfort*  
in a cup of *TENDER LEAF TEA!*



It's the warm, friendly, cheer-up drink. It's comfort in a cup in a hurry. And it tastes wonderful. Tender Leaf Brand Tea is famous for flavor. At your grocer's in packages and filter-type tea balls.



## LETTERS TO THE EDITORS

### VICTORY ISSUE

Sirs:

By luck I latched onto LIFE's Aug. 20 issue—the best yet!

F/O J. H. BAKER

Gulfport, Miss.

Sirs:

Your Aug. 20 number seems to me outstanding and most creditable—even to you. I could, of course, go into any amount of detail but what I feel about it all is so completely and generally true that I'd prefer to just let it go at that . . .

SHIRLEY C. HULSE

Bedford, Pa.

### LAGUNA BEACH

Sirs:

Reading the Aug. 20 LIFE I was thinking, "This is the best issue they've ever put out—this copy should be passed throughout the neighborhood."

But then on the last five pages there was that poisonous pornography called "Love at Laguna Beach" to remind us once again that Hollywood is so rotten it stinks . . .

LEO BRIER

Hallettsville, Texas

● Actually it was only three pages. It just seemed like five.—ED.

Sirs:

It is disgusting. Doesn't M-G-M know that the majority of moviegoers are seeking good, clean entertainment?

LOIS-MARION HOUSE

Grand Rapids, Mich.

Sirs:

I always wondered what Miss Turner has. Now I know.

JOHN W. McREYNOLDS

Shreveport, La.

### THE PRICE

Sirs:

Your picture of the graves of Iwo Jima (LIFE, Aug. 20) reminded me of this American soldier's grave which I

CONTINUED ON PAGE 4

LIFE is published weekly by TIME INC. at 330 East 22nd Street, Chicago 16, Illinois. Printed in U. S. A. Entered as second-class matter November 16, 1936 at the Post Office at Chicago, Illinois, under the act of March 3, 1879. Entered as second-class matter at the Post Office Department, Ottawa, Canada.

Subscription rates: U. S. and Possessions, 2 yrs., \$8.50; 3 yrs., \$12.50; Canada, 2 yrs., \$10.50; 3 yrs., \$15.50 (Canadian dollars, including duty and exchange); countries in Pan American Union, 1 yr., \$6.00; elsewhere, 1 yr., \$10.00. Special rates for members of the Armed Forces: 1 yr., \$3.50; 2 yrs., \$6.00; 3 yrs., \$9.00. There will be a 3-month delay in the entry of new non-military subscriptions.

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LIFE  
September 10, 1945

Volume 19  
Number 11

JIMINY  
CRICKET!  
SO MUCH  
FUN—  
you'll want  
to see  
it twice!



What a Whale of a  
Show is Pinocchio!



You'll go for that  
Hit Parade Song  
"WHEN YOU WISH  
UPON A STAR"

© W.D.P.

Walt Disney's

WONDERFUL  
ADVENTURES  
OF

Pinocchio

FULL-LENGTH  
FEATURE IN

TECHNICOLOR

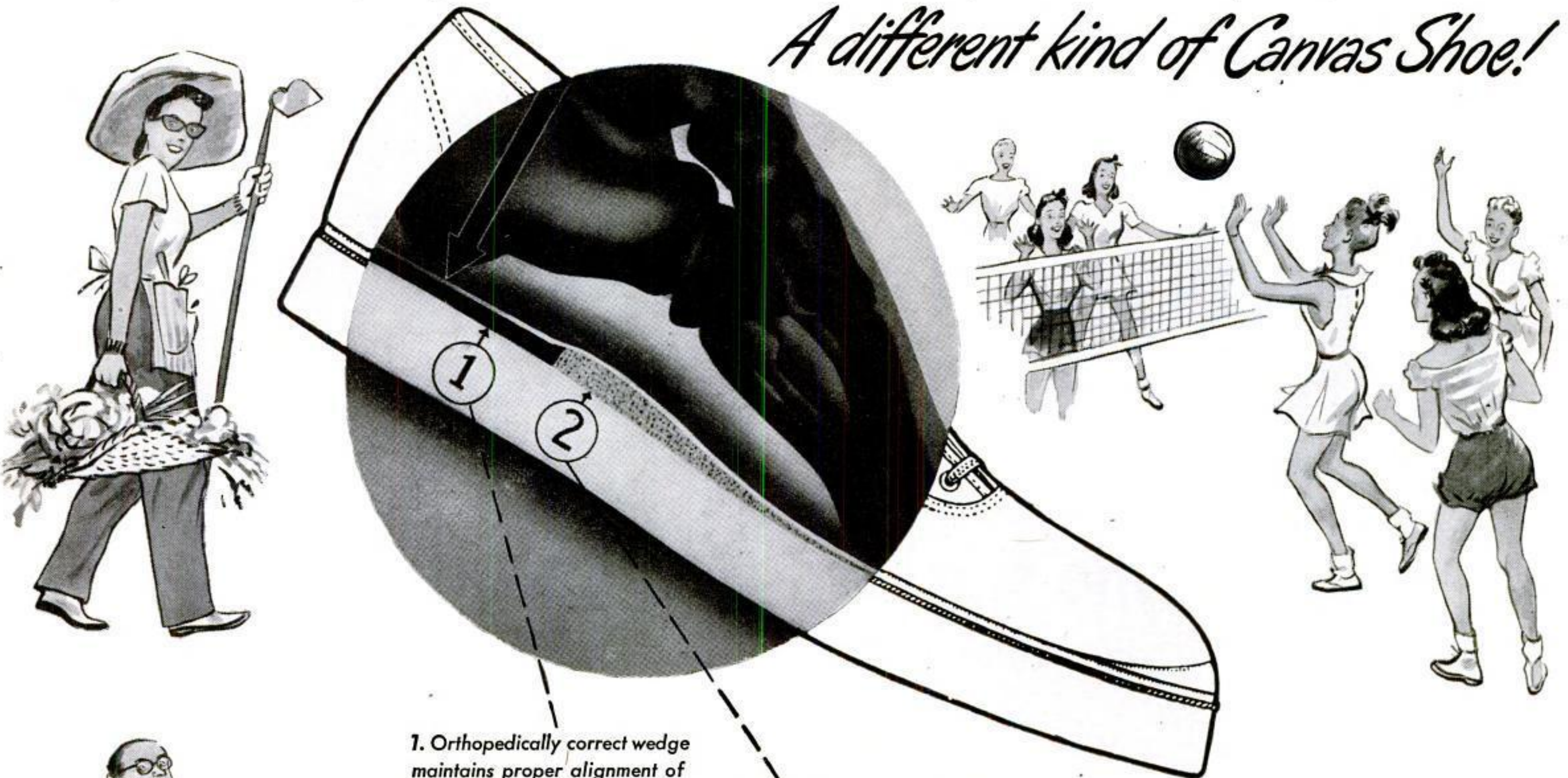
DISTRIBUTED BY RKO RADIO PICTURES, Inc.





# You'll want it as soon as we can make it...

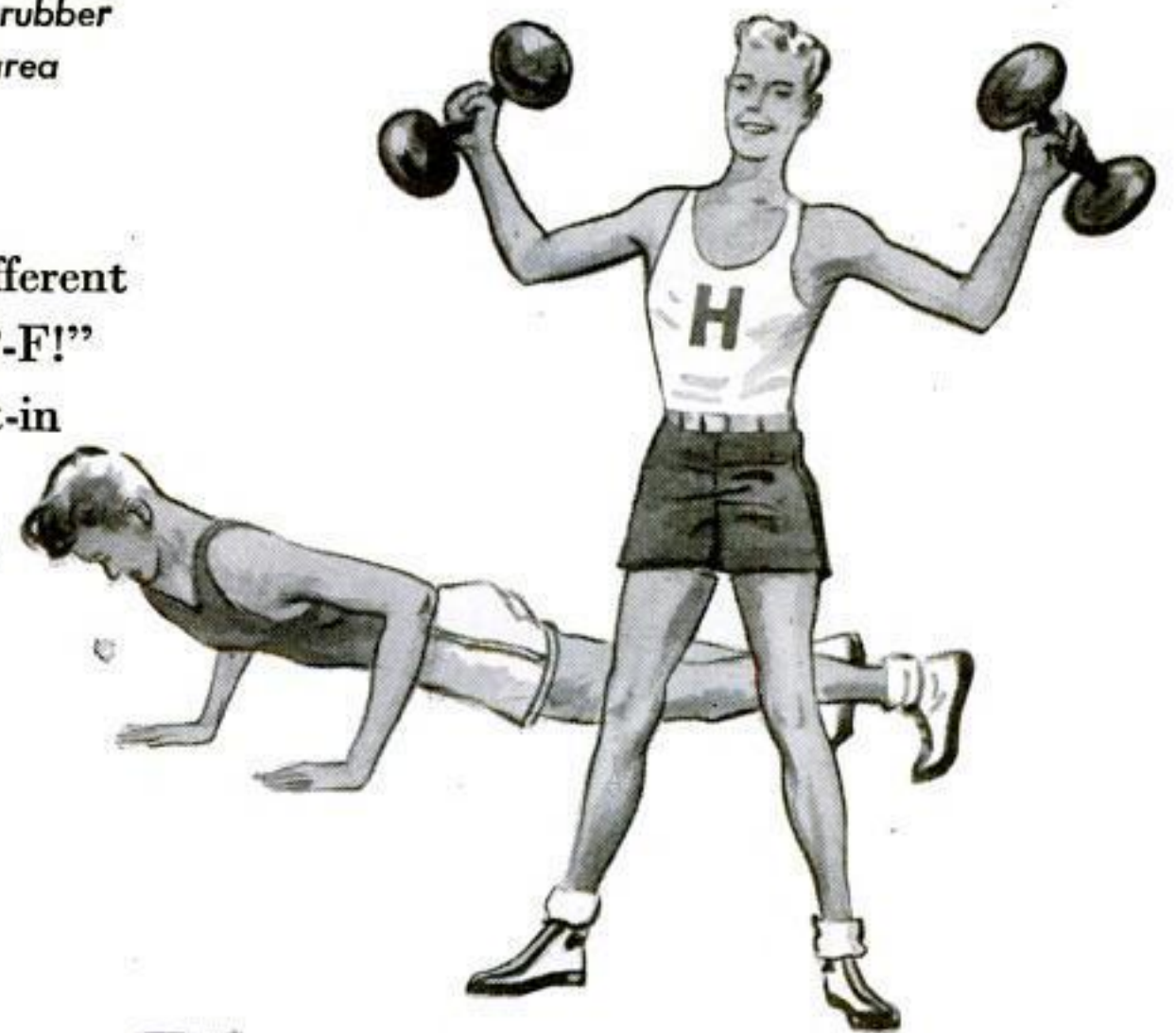
## A different kind of Canvas Shoe!



1. Orthopedically correct wedge maintains proper alignment of the bones of the foot.

2. Comfortable sponge rubber cushion under sensitive area of the foot.

As soon as conditions permit, there'll be a different kind of canvas shoe . . . a canvas shoe with "P-F!" "P-F" means Posture Foundation—a special Built-in feature which cradles the arch in a way that wards off strain . . . keeps the bones of the foot in their natural, normal position . . . guards against flat feet . . . increases "staying power" during active exercise . . . provides safe, correct, comfortable foot support for men, women, and children. This remarkable development has been patented and will be incorporated in Canvas Rubber-Soled Shoes made only by B. F. Goodrich or Hood Rubber Company. Watch for Canvas Rubber-Soled Shoes with "P-F." They're well worth the wait!



**"P-F"** means  
**Posture  
Foundation**

a **Patented Feature** found only  
in Canvas Shoes made by  
**B. F. Goodrich or HOOD RUBBER CO.**





**1. ONE-TIMES-ONE** equals two, when your youngster sees things this way. In school or out, he can't afford fuzzy, troublesome, straining eyesight. Neither can you! You and your child can benefit from this eye care lesson: *Have eyes examined regularly.*

## An apple (or a pair?) for the teacher

**2. TEACHER'S FAVORITE** pupil comes to class equipped with eyes that see the blackboard clearly, help him grasp his lessons quickly. Keep his eyes (yours too!) keen and comfortable by taking advantage of the skills and services of the Optometrist, Ophthalmologist, Dispensing Optician.



**R**... Professionally prescribed when needed to make seeing more comfortable.

**Soft-Lite Lenses**  
Tone down harsh light, reduce overbrightness  
Slightly flesh-toned... less conspicuous... better looking

There is only one Soft-Lite—identified by this certificate



SOFT-LITE LENS COMPANY, INC. • NEW YORK • TORONTO • LONDON

## LETTERS TO THE EDITORS

CONTINUED

photographed on a lonely Pacific atoll. I don't know his name or anything about him except that his final resting place is about the loneliest spot on



earth. Now that it's all over, let's hope that in the years to come he and the thousands of fellows like him will not be forgotten.

E. M. GREENWOOD

San Diego, Calif.

Sirs:

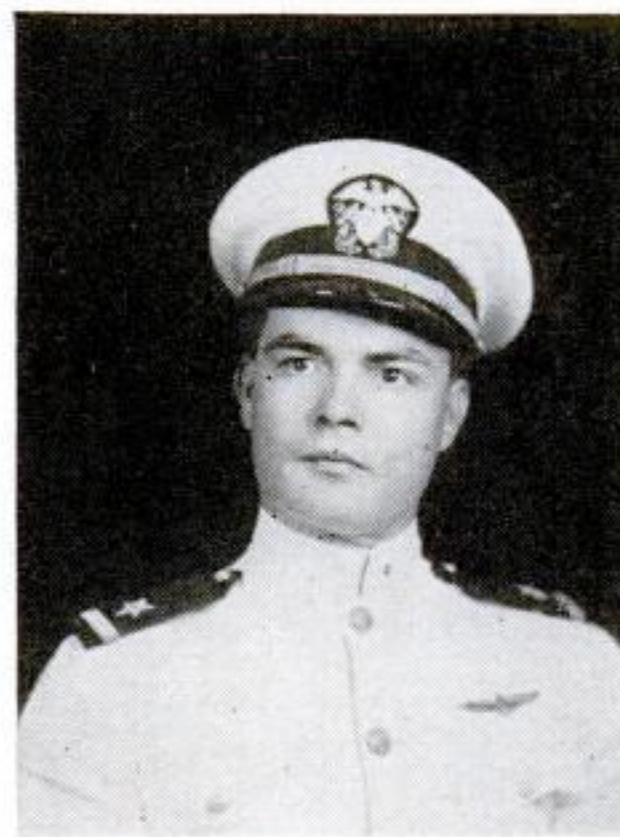
In your story on the price of the Pacific victory there appears a very frightening picture of a burn victim in our Navy. To allay fears of disfigurement for the victim to the great public you serve I should like to submit this picture taken of myself while I was still in my skull-like wrappings and then six months later. The burns were suffered from a plane crash but, thanks to the Navy doctors and their infinite skill, wisdom and patience, I have only one small scar on my neck.

LIEUT. (j.g.) A. O. CLOUSE

Hutchinson, Kan.



BURN VICTIM BEFORE



BURN VICTIM AFTER

### THE ATOMIC AGE

Sirs:

Your editorial, "The Atomic Age" (LIFE, Aug. 20), should be distributed in the streets, proclaimed to all men and one sentence repeated again and again:

"The thing for us to fear today is not the atom but the nature of man, lest he



## "Pilot to Crew..."

### WITHOUT FUMBLE OR FUSS

This new lip microphone is an example of the highly developed safety devices now being made for today's planes... and tomorrow's. It gives its wearer "hand-free" communication and it is so closely adjustable that the noises of engines, exhausts and propellers can be practically canceled out of the conversation.

A group of standard United-Carr fasteners make up the helmet assembly. The intercom switch that goes with it is a special engineering development of our Ucinite Company. Both are typical of United-Carr's wartime operation... a continuing program that is full of promise for postwar needs in many new lines.

United-Carr Fastener Corp., Cambridge 42, Mass.

# DOT FASTENERS



CONTINUED ON PAGE 6



# PIN-UP!



**HE:** How come you hang your sheets that way on the line, sugar?

**SHE:** It's the right way, dear—and one of the reasons why these Pepperell Sheets are so lovely after five years' hard wear—

**HE:** Well, I'd say buying such good sheets in the first place was the main reason why they wore so well!

**SHE:** Right. But I've also learned how to take good care of my sheets. For instance, folding hem to hem, and hanging the hems twelve inches over the line, makes sheets wear longer.

**HE:** I'll be doggoned! Know any more of those little tricks?




**SHE:** Plenty. It's my business to know them! Remember how thoroughly we rinsed?

**HE:** I sure do. It wasn't just for fun, huh?

**SHE:** No, sir. We got out *all* that soap. And I'll press in folds with my finger instead of the iron, to save wear in the creases—

**HE:** Now let me tell one! My mother always said: Quote. Put the narrow hem to the head of the bed every other time the sheet is used, to distribute wear evenly. Unquote.

**SHE:** Right. I know that one, too. And look, here's my linen shelf pin-up:

Choose clean sheets from the bottom of the pile  to rotate wear! Always change sheets on laundry day!  Mend every rip and tear immediately!  And when it's time to buy sheets, be sure to buy Pepperell Sheets—for their practical luxury!

***Sheets are precious! Make them last!***



Write today for free 24-page sheet-saving booklet. Address: Pepperell Manufacturing Company, 167 State Street, Boston 2, Massachusetts.

## PEPPERELL *Sheets*

◆ ◆ LADY PEPPERELL ◆ ◆ DUCHESS ◆ ◆ COUNTESS ◆ ◆ ABBOTSFORD ◆ ◆





## School "Class" YANK Jr. Boys' Garments

Here's style that gives the boys a big lift! And Reliance wear-tested fabrics and workmanship prove welcome "budget balancers" for their parents. You'd expect this quality and value from factories that won three Army-Navy "E" flags in the making of parachutes and garments for our armed forces.

The Yankshire finger-tip coat illustrated is of wool, in plain fleece or corded weaves. Warmly insulated with quilted lining, backed up with 100% virgin wool. Also shown are Yank Jr. plaid flannelette shirts, corduroy slacks and jumperalls. All in a selection of attractive colors. Sold by leading stores everywhere.

### RELIANCE MANUFACTURING COMPANY

212 W. Monroe St., Chicago 6, Ill.  
New York Offices: 200 Fifth Ave. • 1350 Broadway

MAKERS OF Big Yank Work Clothing  
• No-Tare Shorts • Universal Shirts and  
Pajamas • Ensenada Shirts and Slacks • Kay  
Whitney and Happy Home Frocks • Yankshire  
Coats • Big Yank Flannel Shirts



## LETTERS TO THE EDITORS

CONTINUED

lose either his conscience or his humility before the inherent mystery of things."

SGT. JOHN B. RANSOM III  
Camp Shelby, Miss.

Sirs:

Perhaps the best way to express my appreciation of your editorial, "The Atomic Age," is to tell you how I plan to use it.

Lightly framed, it will be a warning against all arrogance whether I have it under the bed or in the cellar.

Standing on my desk it will be a reminder that the simplest language is the best vehicle for the profoundest thoughts.

I expect to turn to it for reassurance when I am discouraged and afraid, and for confirmation when I think I have the world by the tail.

GEORGE EUSTIS

Aiken, S. C.

Sirs:

Hanson W. Baldwin's article, "The Atom Bomb and Future War," is certainly encouraging. Assuming that Mr. Baldwin is accustomed to move among the well-informed great ones of this world, who know what they want, this is about what we may look forward to:

(1) The United Nations organization is not to be taken seriously at all, but will be allowed to function platonically until the lords of the earth arrange for the next world war.

(2) Meanwhile the so-called civilized countries are to have their essential plants and equipment dispersed and moved underground (including Ford's factories, Boulder Dam, LIFE's offices and printshops and all our highways of military importance). There might even be a limited number of safe dwellings for human moles who can afford high rents for low places.

(3) In due time the battle for atomic democracy will begin to be fought out across the North Pole.

(4) It is taken for granted that the fellows we are ready to pulverize, or rather atomize (a) will never give this possibility a thought, and/or (b) will lack the science, wealth and manpower to go in for atomics, and/or (c) that uranium can only exist in places we control (which is not true of any natural material, from gold and iron to coal and petroleum).

(5) Accordingly, on the day when our offensive-defensive starts at 2100 (Army-Navy time), we'll be hit by the counteroffensive-defensive about 2300. Taking a proper atomic spy system for granted, both sides should destroy their mutual military objectives with tremendous speed and efficiency.

(6) With the white man's civilization obliterated in America, Europe and Asia, the meek Africans will be in a position to inherit the earth and might even put science to better uses than we can think of.

(7) But this will not bother our wise and powerful men to whom the acme of life is death-by-the-million because they, too, will have been atomized or else will starve when there no longer exists a government to organize either an RFC or a WPA, and when only a few rugged individualists will survive (for a little while) by glorious cannibalism.

Correct me if I am wrong. Does anybody except starchy-eyed visionaries think of using atomic force for a purpose other than war?

JOHN WORTHING

Merrick, N. Y.

Sirs:

I am astounded at your article, "The Atom Bomb and Future War." With World War II just won victoriously, I thought the U. S. was all out for peace. Isn't that why we fought World War I and its sequel, World War II?



AFTER A BUSY DAY  
THERE'S NOTHING LIKE  
BABY'S OWN SOAP  
FOR A BABY'S  
BATH!



BABY'S OWN SOAP is as gentle as though fairies carried away the little soap bubbles. Baby's Own leaves baby's tender skin soft, clean, refreshed. Pure Baby's Own suds roll down over baby's skin, clean it, soften it, and then go away completely. Baby's Own has been Canada's leading baby soap for 75 years. A dash of coconut oil makes Baby's Own work fast. Lanolin soothes, smooths, softens baby's skin. Baby's Own is as pure and sweet and gentle as your baby's smile. Start using Baby's Own Soap today.

## Baby's Own Soap



SOAP — OIL — TALCUM  
THE J. B. WILLIAMS CO.  
GLASTONBURY, CONNECTICUT

CONTINUED ON PAGE 8



# "Hey, Bridget! Fetch a pail of clean water!"



**Bridget:** Faith! What have ye done to the poor colleen! She's stretched out on the floor like a dyin' alligator!

**Mamie:** Blame the typewriter! I open the door—I'm after the wastepaper baskets—and I see this little slip of a girl messing with the ribbon on her old-fashioned typewriter. She's got more ribbon around her than a St. Valentine's Day present!



**Bridget:** She's fixin' to change the typewriter ribbon is all. Go on. Go on.

**Mamie:** So I says, says I, "Beggin' your pardon, young lady, but why doesn't your Boss let you operate a Royal Typewriter? Changing the ribbon on a Royal is easier than eating a hunk of Mother's strawberry shortcake. Zip, flip, and you're ready to go!"



**Bridget:** So she got mad and swiped at you—and you parted her hair with your mop handle, eh?

**Mamie:** Never that! She looks interested. But all the time she's fiddlin' with the margin setter. Workin' like a toothless beaver, she is. So I says, says I, "Now, on a Royal Typewriter, you don't have to fuss and work like that. With Royal's Magic\* Margin, a flick of your pretty, manicured finger sets the margin automatically!"

**Bridget:** So she loses control of her senses and helps herself to a paralytic stroke, perhaps?

**Mamie:** Not at all! She tells me—with a tear in her pretty blue eye—that she has to pound her fingers down to nubbins to make the letters type, and I says, says I, "Aha! With Royal's TOUCH CONTROL you adjust the key tension to your own *personal touch*! Right to Your Highness' own taste!" Then I mention Royal's finger-comfort keyboard, and smooth-riding carriage, and . . .

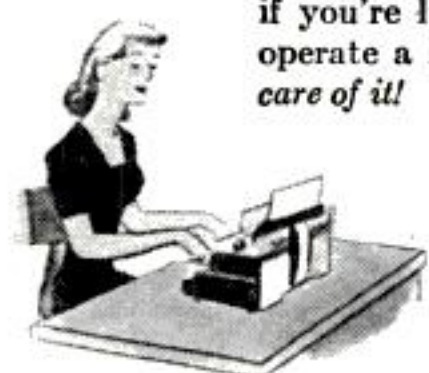


**Bridget:** And she turns apple-green with envy, and gits a touch of apoplexy!

**Mamie:** Gracious no! I tell her Royals are now available to civilians . . . but only in limited quantities. And I says maybe her boss can get her a Royal soon . . . and she faints for the joy of it! Now then, Bridget, me girl . . . the water. Leave her have it!

## In the meantime—

if you're lucky enough to own or operate a Royal typewriter—take care of it!



# ROYAL

World's No. 1 Typewriter

\*Registered U. S. Pat. Off. Copr. 1945, Royal Typewriter Company, Inc.



# New Ink

## LICKS BIGGEST PEN PROBLEMS!

CONTAINS  
PEN-PROTECTING **SOLV-X**



*The office rocked, McFlit was gloomed—  
His pen was clogged, he thought it doomed!*



*Till Suzie Smart suggested Quink...  
He tried this pen-protecting ink!*



*Its **solv-x** keeps his pen so clean  
Now all is peaceful and serene!*

Every drop of Quink contains  
**solv-x**—protects pens  
4 vital ways!

1. Ends gumming and clogging. Gives quick starting—even flow.
2. Actually cleans your pen as it writes... keeps it out of the repair shop.
3. Dissolves, flushes away sediment left by ordinary inks.
4. Prevents metal corrosion and rubber rot caused by high-acid inks.



→ Parker Quink solves most pen problems caused by ordinary high-acid inks. For only Quink contains **solv-x**, yet Quink costs no more than other inks. Ideal for any pen. 7 permanent, 2 washable colors. Regular size, 25¢. School size, 15¢. Also in pints and quarts. The Parker Pen Company, Janesville, Wisconsin and Toronto, Canada.

Copy, 1945 by The Parker Pen Company

MAKE YOUR DOLLARS FIGHT—BUY WAR BONDS!

# PARKER Quink

THE ONLY INK CONTAINING **SOLV-X**

## LETTERS TO THE EDITORS

CONTINUED

Thank God for the atomic bomb which has proved so essential and valuable already. But let's say it is—and use it as—only a means to preserve peace. Let's be as strong in peace as we have been in war!

DELMAR LEWIS

Camp Shelby, Miss.

Sirs:

Your highly interesting account of research on the atomic bomb centers too closely on this war and on recent years. German scientists among others were working on the development of atomic energy in World War I and at that time, it can now be deduced, they came very near attaining their goal. In fact our own recent successful development of the atomic bomb gives us a heretofore not realized explanation of a tremendous explosion that destroyed the Oppau plant of the Badische Anilin und Soda Fabrik works on the morning of Sept. 21, 1921.

On that date a great structure in which hundreds of workmen were employed was blown off the face of the earth, leaving a crater 250 feet in diameter and 50 feet deep at the site of the explosion which totally destroyed other structures over the surrounding terrain. Four hundred and fifty men lost their lives and no one working in or near the plant survived. Property damage was immense over a wide area with an estimated \$50,000,000 loss. The explosion was heard at Bayreuth, 145 miles away, and shock and damage was caused at Frankfurt, 53 miles distant.

The cause of the explosion could only have come under what we now know as atomic power. That was what German scientists were working on then and what they must have succeeded in organizing. Their success was premature. Instead of putting this power into the hands of the German leaders of that time, and their Hitler successor, their own bomb destroyed the group working on it and thus set back German progress so that the United States and Britain could arrive at the control of atomic bombing and not the Nazis. It would seem, in the light of Nagasaki and Hiroshima, a direct intervention of the Almighty in human affairs.

JAMES BATTLE RIVERS

New Orleans, La.

● Reader Rivers' facts do not jibe with newspaper reports of the time. It was a tremendous explosion indeed, making a hole 130 yards wide and six yards deep, hurling tombstones about in a nearby cemetery, shaking buildings and breaking windows for many miles. But it was quite evidently not an atomic explosion. Contemporary reports claimed that the Badische works, which had manufactured poison gases during World War I was, in 1921, experimenting with the preparation of a new gas in which 15 tons of ammonium sulphate were being subjected to a pressure of 4,410 pounds per square inch and a temperature of 500° to 700° Centigrade. That, when badly handled, is enough to cause an enormous explosion but one far from atomic.—ED.

MAX WEBER

Sirs:

What is this "stuff" in LIFE (Aug. 20) called "Art?" I think, as do most kids my age, that it is moronic. How it can become famous and how people pay money for such so-called pictures is beyond me.

LORRAINE WEIN

Indianapolis, Ind.

CONTINUED ON PAGE 11

## A Rain Topcoat for Double Duty ... Rain or Shine!



From Super-Fabrics  
With Tailored-In Smartness  
that "Stays With"  
the Garment for Life!

Remarkably improved showerproof fabrics now provide dual-purpose coats styled for the smartest occasions!

Not of old-type non-porous raincoat materials—but of fine fabrics that "breathe"—that hold their shape and can be styled like the smartest topcoat.

RAIN TOPCOATS by Rainfair are of soft draping fabrics processed to keep out the wind and rain, yet without sacrifice of fine tailoring and style. Colors, fabrics and models are in sufficient variety so you can be individually dressed to personal taste. A double duty coat—a RAIN TOPCOAT by Rainfair—will draw approving glances on many more than the 122 rainy days of the year.\*

\*28 largest cities in U. S. average 122 rainy days per year.

Grafton... \$11.50 — Made from fine combed yarn gabardine. Trim fitting collar shaped to your neck line, raglan shoulders. Open-thru pockets permit easy access to inner clothing pockets. Yoke and sleeve lining of long-wearing silky rayon adds to smartness and comfort. Colors: Fawn, Light Olive, and Taupe.

## RAINFAIR



An unexpected  
shower is no  
excuse for a  
bedraggled  
appearance

**FREE BOOKLET**... How to make your raincoat last... our new free booklet gives you detailed instructions, and illustrates the popular Rainfair styles. Write for it today.  
RAINFAIR, INC., Racine, Wis.

Dealers everywhere are supplied  
as often as our military obligations permit civilian shipments.

For that future rainy day BUY WAR BONDS





**Luxurious "warmth-without-weight."** The M. C. Barrells of Maplewood, N. J., say their G-E Blanket can take the place of three regular blankets in cosy comfort—yet it weighs only a fraction over 5 lbs.! Anne and Cynthia Barrell hope to have G-E Blankets of their own soon.



**"Keeping warm used to be a problem,"** says Mrs. Barrell. "It meant hunting for extra blankets on zero nights, keeping the furnace up high, wearing sweaters and socks in bed. Now we wear summer night clothes all year round!" G-E Blankets *pre-warm* beds, take the chill off sheets.

## VISIT TO A G-E AUTOMATIC BLANKET HOME

**New Jersey family shows fellow Americans what they can look forward to in sleeping comfort.**

Like the Barrells of Maplewood, New Jersey, who were lucky enough to get a G-E Automatic Blanket before the war...

Comfort-loving folks will soon be able to bask in night-long, sunshiny warmth-without-weight. For G-E Blankets are being made again.

Light as an ordinary blanket, Mrs. Barrell says her G-E Blanket can be as warm as *three*! Plugs in like a lamp. A bedside control automatically keeps bed temperature "just right," the sleeper comfortable.

The Barrells can *pre-warm* their bed just by switching on their G-E Blanket for a few minutes before retiring.

And no matter how the weather changes during the night, the bed stays automatically cosy-warm from top to bottom, from corner to corner.

The Barrells have one G-E Blanket now—want them for the whole family the minute they can buy them. G-E Blankets have been approved by the Underwriters' Laboratories, Inc. For information write: General Electric Co., Dept. 16, Bridgeport, Conn.

**FOR GOOD LISTENING:** Don't miss Art Linkletter, in "The G-E House Party," every afternoon, Monday through Friday, 4 p. m., E.W.T., CBS. "The G-E All-Girl Orchestra," Sunday, 10 p. m., E.W.T., NBC. "The World Today," News, Monday through Friday, 6:45 p. m., E.W.T., CBS.

**FOR FINAL VICTORY — BUY AND HOLD MORE WAR BONDS**

"AAF KODACHROME"



**"Electrical-warmth" war-proved.** Army Air Force men wear "electrically-warm" flying suits, made by G.E. on the same principle as the G-E Blanket. Both are being made in the same factory.



FOR A NEW KIND OF SLEEPING COMFORT

**GENERAL  ELECTRIC**

**Convenient, Savings in use.** G-E Blankets cost very little to operate—Only a few cents a night depending upon local power rates. Only *one* blanket to keep clean, store away in summertime. Makes bedmaking quicker.



# Down East Treat FISH DINNER for 4... only \$1.51\*



Rely on A&P to bring you good eating at modest cost! Here's a taste-tantalizing fish dinner...complete with an appetite-provoking salad and savory baked haddock...with all the trimmings...for less than 38 cents a serving.

Yes, countless homemakers are giving their families delicious, hearty meals like this with no strain on modest budgets. A little planning...and regular marketing at A&P...is their day-in and day-out answer to their food problems.

A&P Super Markets bring you big value for your money, because they sell so much food they can afford to take but small profits on each sale. Come in today! See for yourself. You'll agree, for good eating at modest cost...it's hard to beat A&P!

TURN TO A&P

## MENU

Appetizer Vegetable Salad  
Baked Fish  
Potato Balls in Parsley Sauce—Broiled Tomatoes  
Dinner Rolls  
Fresh Peach Gelatin Pie  
Coffee

## \*BAKED FISH

3-pound fish  
Salt and pepper  
1 onion, chopped fine  
2 tablespoons chopped celery  
2 tablespoons margarine  
2 cups soft bread crumbs

Wash fish and wipe dry; sprinkle inside with salt and pepper. Cook onion and celery in margarine 5 minutes or until tender. Add bread crumbs and mix well. Fill fish with stuffing and sew the opening. Place fish on greased shallow pan; brush with cooking oil and sprinkle with salt and pepper. Bake in moderate oven, 375° F., about 45 minutes. Garnish with parsley and lemon slices. 4 servings.

Fish for baking: Haddock, Bluefish, Mackerel, Bluepike, Yellow Perch, Bass and Lake Trout.  
Recipe cost estimated for price of Haddock.



Your A&P Super Market is a food department store...selling everything you require for every meal. No need to shop about. You can rely on A&P low prices to bring you big values and you save time as well as money.

\*Cost based on average prices  
in A&P Super Markets  
at time of going to press.

## SUPER MARKETS



# INSIDE ★ Paramount

Published Here Every 4 Weeks



## HUBBA! HUBBA! THE THREAT!

ROBERT CUMMINGS • LIZABETH SCOTT

"She's the Threat, to the Body, the Voice and the Look" . . . said a famed critic when she saw Lizabeth Scott in her first motion picture . . . Hal Wallis' newest production for Paramount

## "You Came Along"

Hubba! Hubba! say Robert Cummings, Don ("The Affairs of Susan") DeFore and Charles Drake when they first meet Lizabeth Scott—blonde, beautiful, sultry-voiced—in Robert Smith's fast moving story of three wild and wonderful bird-guys chaperoned on a bond-selling tour by a golden haired lovely.

Speaking of Robert Smith, he sent the script of "YOU CAME ALONG" to Hal Wallis with a note which began, "Take what liberties you like with my story, but don't foul up my flyers—as I turn them over to you, they've got the breath of life in 'em . . . they're on the level . . . keep them that way . . . and as for Ivy (Lizabeth Scott) . . . what really counts is that she makes a place for herself on their ball team—she belongs."



DON ("The Affairs of Susan") DEFORE

When you see "YOU CAME ALONG," ably directed by John Farrow, you'll agree with us that Hal Wallis did not "foul up" Smith's flyers and that Lizabeth Scott really "belongs" on their team . . . and that team is in the big leagues.

Paramount Pictures

## LETTERS TO THE EDITORS

CONTINUED

Sirs:

Phew! Three times Phew!!! This "art" is grosse, sordid insult to the good taste and intelligent of American public! His "art" stings even thru cement wall! WHO is this Max Weber, anyhow? Is he determined to demoralized all our yung people—even children? Shame on him!

FRANCES MOTYCKA

Van Wert, Ohio

Sirs:

Congratulations on your story about Max Weber . . . I have been waiting for you to do one about Weber. . . .

VAUGHN FLANNERY

Darlington, Md.

## RADAR

Sirs:

This is Japanese radar, an anti-aircraft set I spotted on one of the Pacific islands. Not as advanced as our radar



(LIFE, Aug. 20), it was effective nonetheless until it was smashed by advancing armies.

PETER STACKPOLE

New York, N. Y.

## BATTLE OF THE BANDS

Sirs:

We read with extreme disgust your article describing Louis Prima and his band in their crude bid for cheap publicity (LIFE, Aug. 20). How any self-respecting female could lower herself to such an extent as to even attend such an exhibition, let alone shove herself against a balcony merely to touch him is utterly incomprehensible to us.

RICHARD S. HAYES JR.

B. O. GRANTZ

FREDERICK L. HETTER II

Phillips Exeter Academy  
Exeter, N. H.

Sirs:

Congratulations to LIFE for its marvelous article on bands.

With the possible exception of versatile Lionel Hampton, no other bands have caused such widespread acclaim from central Ohio's jazz-crazy juveniles as have Louis Prima and Benny Goodman. Prima's rendition of *Please No Squeeze Da Banana* sent thousands of us into ecstasy and smashed box-office records.

Last week I journeyed to Columbus' RKO Palace Theater to see the great Benny Goodman. Before entering the theater we heard the news of Japan's surrender. This in itself made it a red-letter day for the overcapacity crowd that jammed into every available inch of space of the theater, but to our delight Mr. Goodman and company put on the greatest spectacle we had ever seen. The climax came with "Slam" Stewart, Red Norvo, Benny, the whole band and sextet giving out as never before with *It's Gotta Be This or That*. The crowd went completely mad—screaming, clapping, waving and shouting, "More, more." Even after the show thousands of Columbus' celebrating citizens stood in front of the theater chanting, "We want Benny." But he didn't appear.

JACK FURNISS JR.

Lancaster, Ohio

"Am I proud  
of my shoe wardrobe!"



"Ever since rationing, I've been fitted right, with well-made, walkable shoes—ENNA JETTICKS. And I've given them the best of care. So my shoe wardrobe is a good-looking, going concern all the year-round."

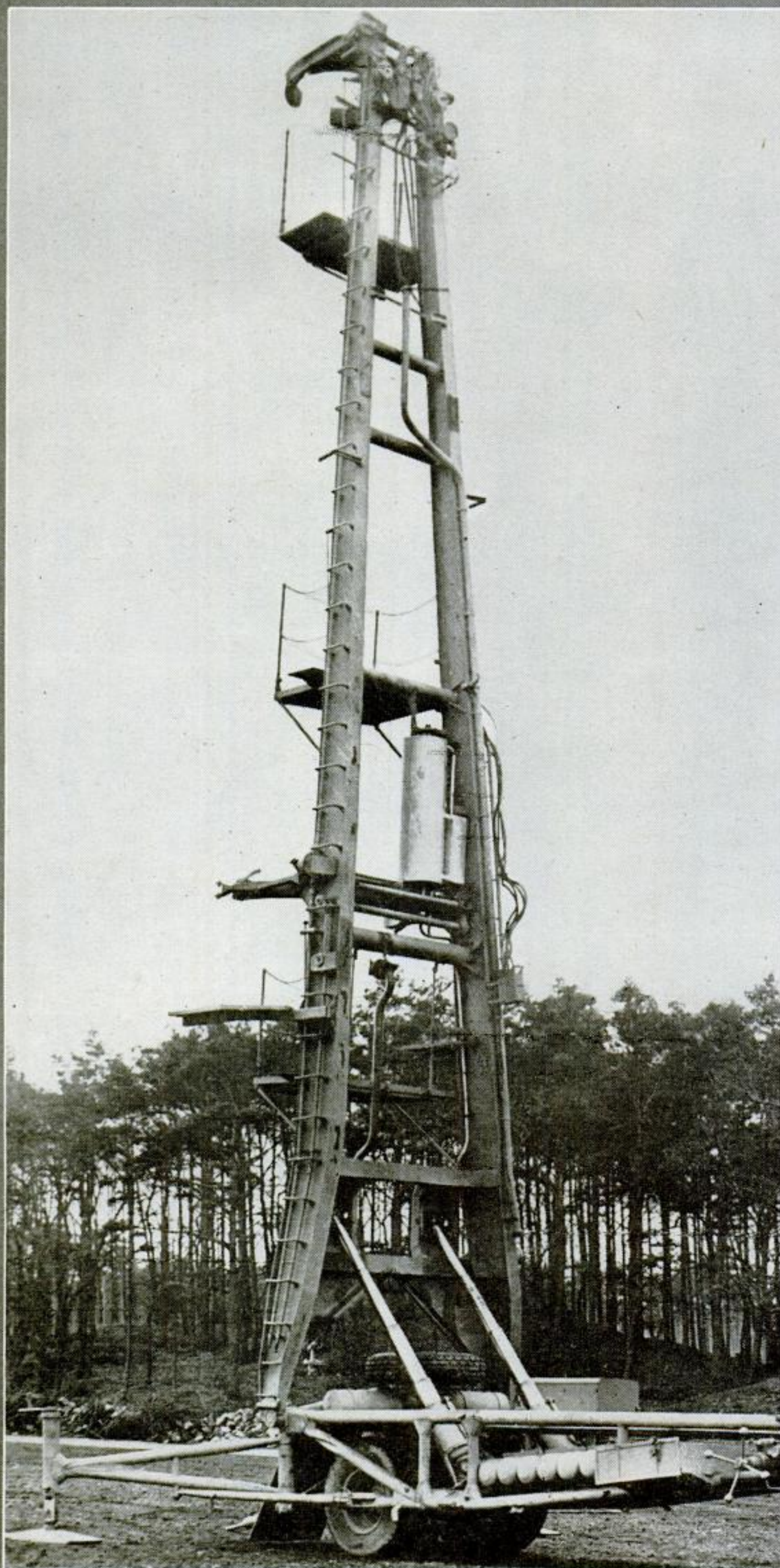
ENNA JETTICK SHOES, INC.  
Auburn, N. Y.

\$6 and \$6.50  
Some Styles \$5 and \$5.50

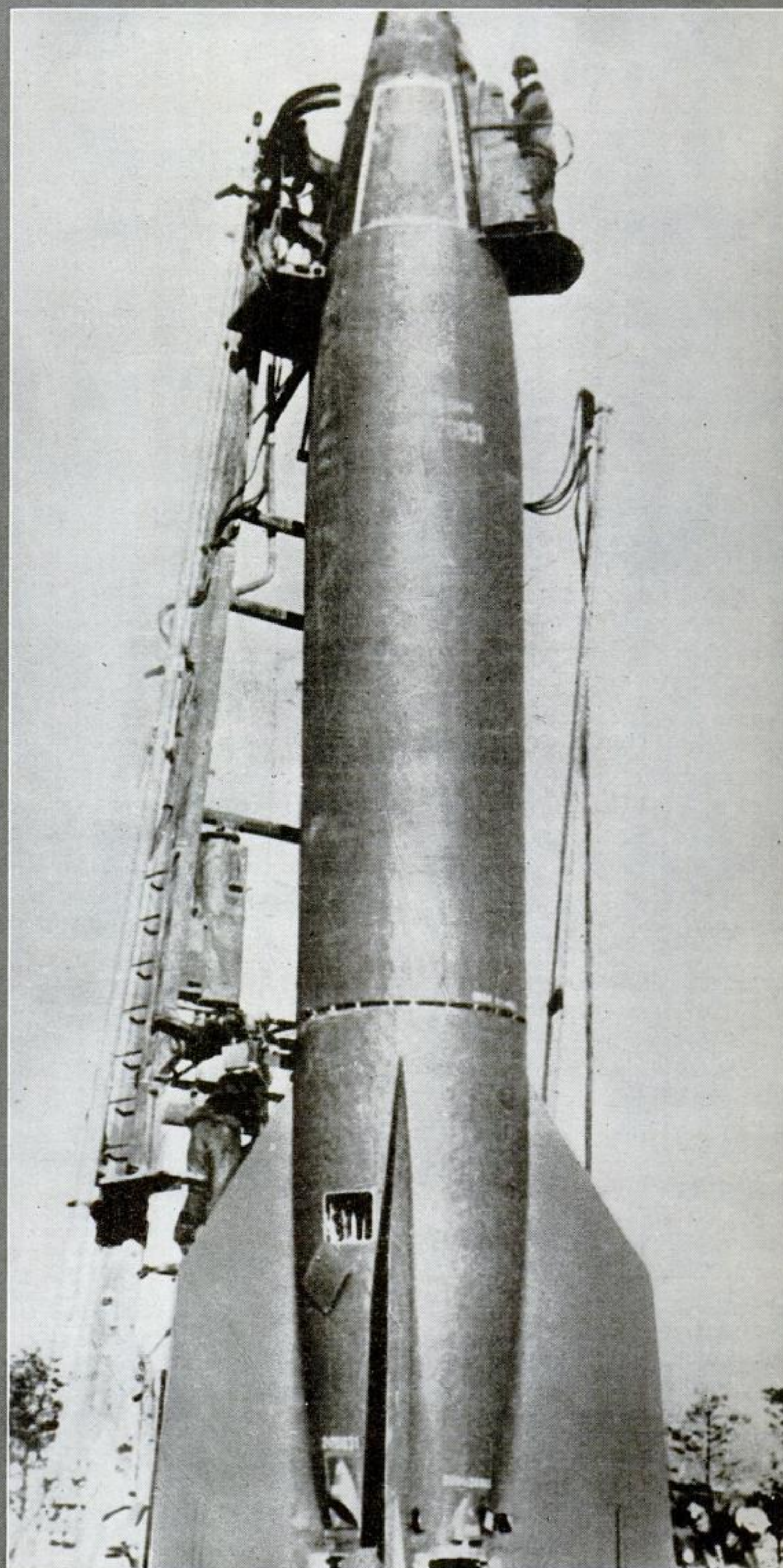


Enna Jetticks  
America's Smartest Walking Shoes





The V-2 launching platform was mounted on heavy-duty chassis and rubber-tired wheels. It could be rolled up into firing position and then raised hydraulically like a drawbridge.



V-2 on the platform is checked by a U. S. ordnance specialist (top). This was one weapon that was highly successful, killed more than 2,000 people across the Channel in England.

## *SPEAKING OF PICTURES . . .*

### *. . . THESE ARE THE FANTASTIC SECRET WEAPONS OF GERMANY*

The weird and wonderful weapons displayed on these pages represent the lunatic fringe of Germany's "secret weapon" program of World War II. Some of these devices turned out to be rather useful weapons. Most of them were fantastic inventions concocted in a last-minute desperation. But very few of them got into mass production, and those that did suffered from shoddy workmanship. Ordnance experts of the Enemy Equipment Intelligence Division of the U. S. Army, who captured these weapons, found that the famous precision tooling

of German manufacturers had long since deteriorated into hurried sloppiness.

But while the Germans were roughly six months late in producing them in mass, they did indeed perpetrate some fascinating gadgets of war. They developed a high-speed submarine that would stay under water indefinitely, a "spider" torpedo that trailed a wire through which it could be controlled after it was fired. German wind tunnels were far ahead of ours. For all the highly touted German technology, however, Allied war equipment was generally far superior.





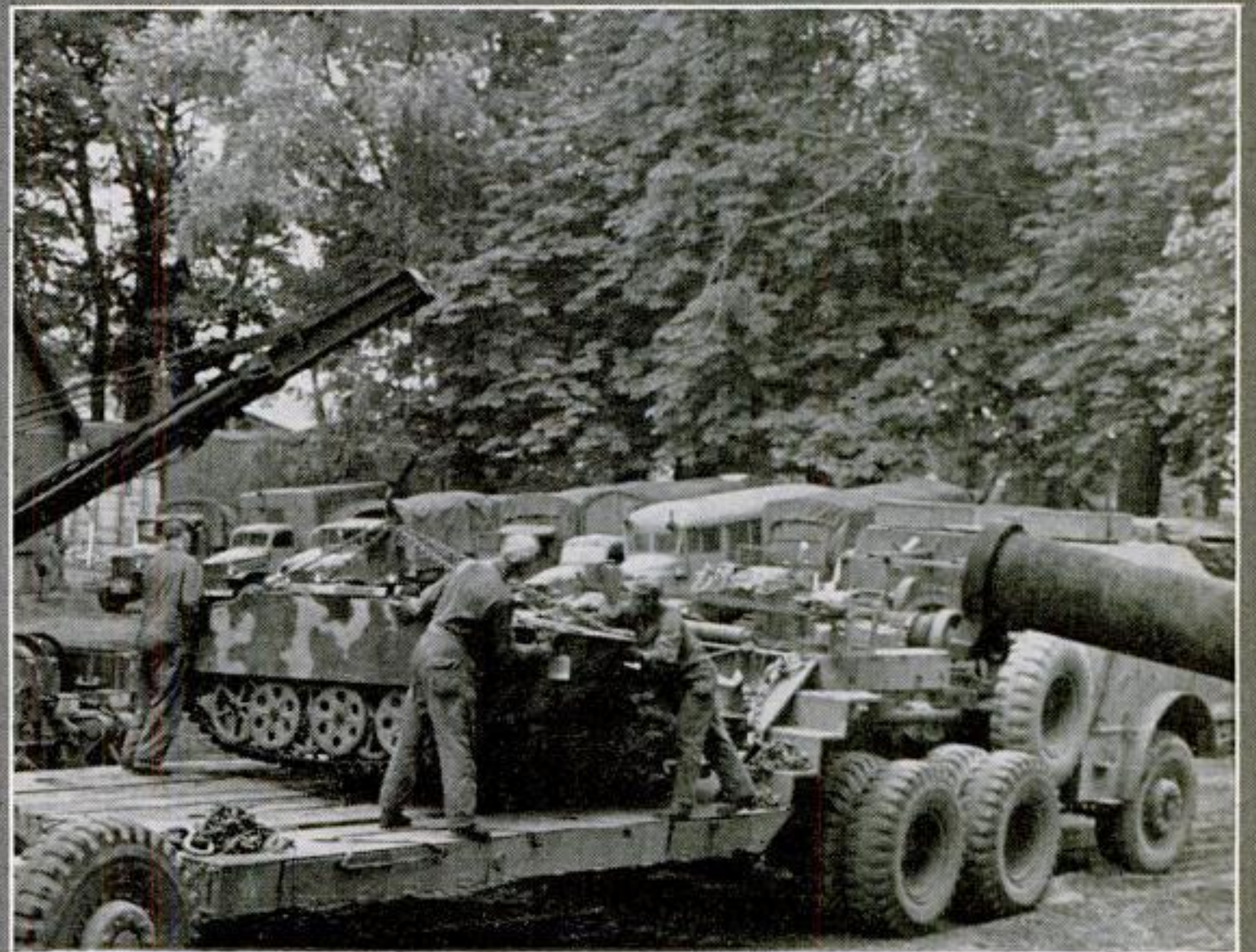
Section of the "Channel gun" is inspected by ordnance officer. At right are the "boosters" which were spaced along the 400-foot-long barrel to increase shell's velocity and distance.



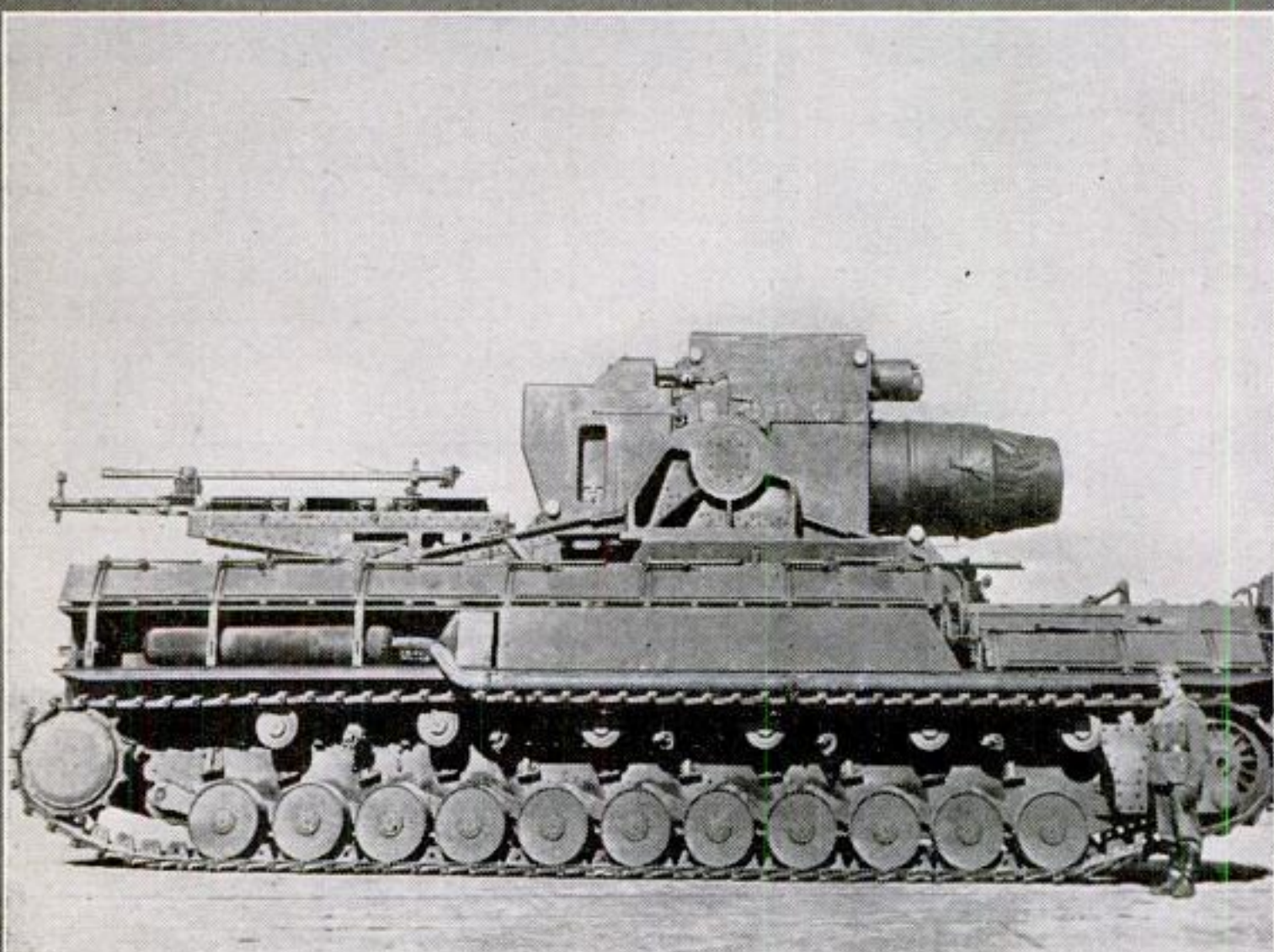
Channel gun was set deep in Channel cliffs, aimed at London. Note boosters on barrel. Gun was never used, was said to be manufactured because it was invented by a friend of Hitler.



The V-1 with cockpit was a type of German "Kamikaze." This one is shown with the wings detached. The Germans rarely used this because they could not get the suicide pilots for it.



"Stingers," here loaded on trucks, were little tanks, filled with high explosives and so constructed that the driver could get out and run before the tank hit its target and exploded.



540-mm. self-propelled mortar, mounted on a tremendous tracked carriage, weighed 120 tons. It had a range of 14,000 yards. Note its appalling size in contrast with the man (right).



Infrared searchlight was an extremely useful weapon. It projected infrared beam on object which view-finding device with an ingenious infrared filter made visible at great distance.



*"Choosing the right stockings  
certainly pays off in charm!"*

**says Dinah Shore,**

singing star of Dinah's "Open House"—NBC every Thursday night.



**1. "There's no doubt about it,"** says lovely Dinah Shore, "stockings can be that little difference between looking not-quite-right or the neatest trick of the week!"

And thousands of girls all over America echo her opinion. That's why they're choosing *Cannon Rayons* . . . and here's why you'll want them, too . . .



**2. Observes Dinah,** "Characteristics that count most in stockings are sheerness . . . clinging-vine fit . . . and that dull, smoky look."

And Cannon Rayons have *all* those . . . plus a blessed amount of *wear* that's knit into them with a special Hi-Twist yarn. (Naturally Cannon Rayons are in demand, so please be patient if you can't get yours immediately.)



**3. "Remember this** about stockings, too," warns Dinah Shore. "The way you wash them is ever so important. To get the *most* wear, always follow these easy rules . . ."

Lovely Cannon Rayons, like all rayons, must be handled gently in water. Use lukewarm suds. Never rub or twist. Squeeze gently, and pat out extra moisture in a towel. Allow 36 hours to dry.



*Cannon Hosiery*  
HI-TWIST RAYON

Made by the makers of the famous Cannon Towels and Sheets  
CANNON MILLS, INC., 70 WORTH STREET, NEW YORK 13, N. Y.

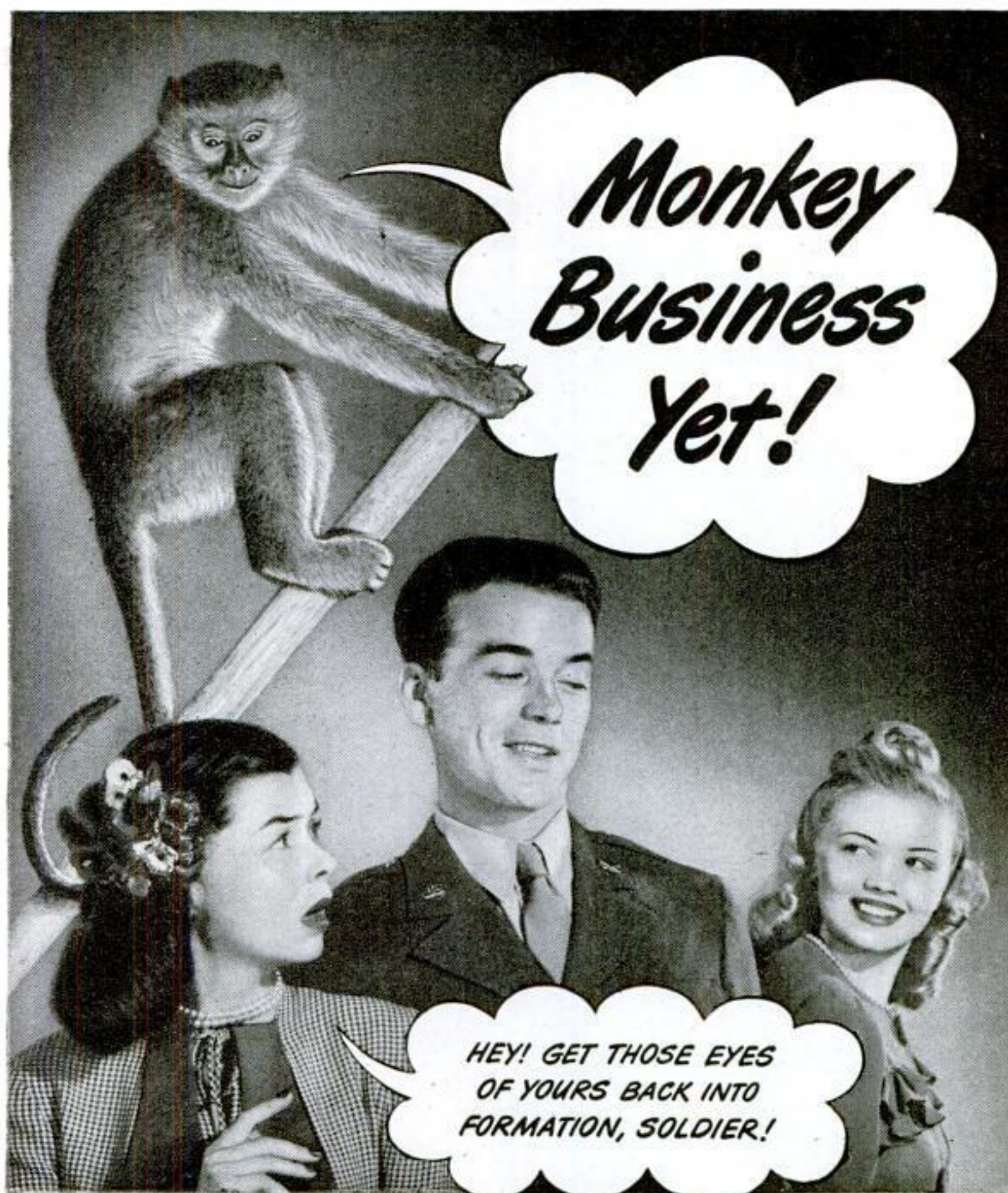


# SPEAKING OF PICTURES

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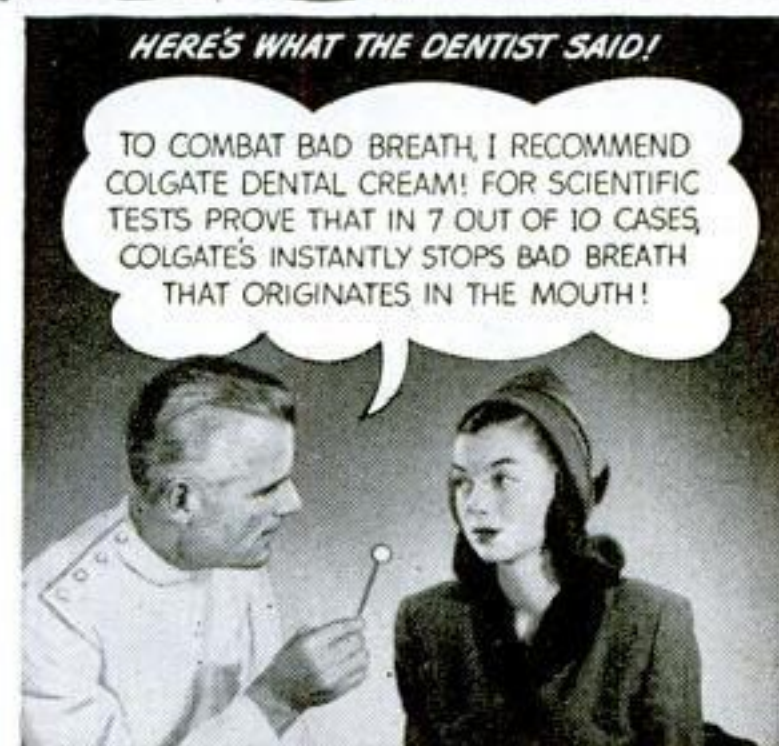


The gun that shoots around corners worked in close combat and street fighting. It is demonstrated by Major General Henry Sayler, the chief ordnance officer of ETO.



YOU'RE ENGAGED TO ME! REMEMBER? BUT NOT FOR LONG—IF YOU KEEP ON TREATING ME AS IF I HAD BAD BREATH OR SOMETHING!

WELL, YOU'VE BROUGHT IT UP, HONEY! SO... WHY NOT FOLLOW THROUGH WITH YOUR DENTIST?



HERE'S WHAT THE DENTIST SAID!

TO COMBAT BAD BREATH, I RECOMMEND COLGATE DENTAL CREAM! FOR SCIENTIFIC TESTS PROVE THAT IN 7 OUT OF 10 CASES, COLGATE'S INSTANTLY STOPS BAD BREATH THAT ORIGINATES IN THE MOUTH!



COLGATE'S ACTIVE PENETRATING FOAM GETS INTO HIDDEN CREVICES BETWEEN TEETH—HELPS CLEAN OUT DECAYING FOOD PARTICLES—STOP STAGNANT SALIVA ODORS—REMOVE THE CAUSE OF MUCH BAD BREATH



LATER... THANKS TO COLGATE DENTAL CREAM

I'LL BE A MONKEY'S UNCLE IF HE'S NOT EN-CAGED FOR LIFE!



**COLGATE**  
RIBBON DENTAL CREAM

IT CLEANS YOUR BREATH WHILE IT CLEANS YOUR TEETH

Tune In! KAY KYSER Wednesday Night — NBC Network



# FLORSHEIM SHOES

...worth waiting for



SCARCITY has put a new and higher premium on shoe quality. Men who once believed any shoe would do are now willing to wait for something better. Florsheim wearers know from experience Florsheim Shoes are worth waiting for.

Most Styles \$10.50 and \$11

**Florsheim**  **Shoes**

THE FLORSHEIM SHOE COMPANY • CHICAGO • MAKERS OF FINE SHOES FOR MEN AND WOMEN

## LIFE'S REPORTS

### "BOTTOMS UP" IN CHINA

Jing pao party tests capacity of U.S. soldiers

by LIEUT. THOMAS P. RONAN

HEADQUARTERS, CHINESE COMBAT COMMAND

The *kan pei* (pronounced "gahn bay") or *jing pao* ("jing bow") party is an institution familiar to every U. S. liaison officer and enlisted man with the Chinese army. *Kan pei* means, freely, "bottoms up." *Jing pao* literally means "air-raid alert," but it is also the U. S. nickname for a potent Chinese rice wine. Just why this beverage is called air-raid alert I don't know, but legend says the phrase originated with Chennault's Flying Tigers, an outfit that has left other legends in China.

The *kan pei* party is essentially a drinking affair. What distinguishes it from other shindigs is the fact that the emphasis is on NOT drinking. This is partly due to the nature of *jing pao* for, compared with this Chinese drink, the foulest concoction of our Prohibition era would taste like pinch-bottle Scotch.

There is another good reason for NOT drinking at *kan pei* parties. Since Chinese believe that all Americans like to drink, they consider a party successful if they can get one or more Americans drunk, particularly if the Chinese remain sober. This, of course, arouses the Americans' competitive spirit and they try to get the Chinese tight while remaining relatively well oriented themselves. A *kan pei* party thus becomes a contest in which each participant employs every artifice to keep from drinking. The variety of dodges used gives the *kan pei* party a sporting character that probably is equaled by few other social events.

The hospitable Chinese give *kan pei* parties on the slightest pretext or on no pretext at all. The more recent parties I've attended or avoided were given for these reasons: by the head of the town council to welcome our advance party when we moved to this town; by the local magistrate for the same reason; by the magistrate on the arrival of our commanding officer; by a leading citizen to welcome us again; and, just the other day, by our No. 1 houseboy to mark his marriage to a local belle.

The preliminary routine is always the same. First there is the invitation on a red slip of paper in a Chinese envelope. In the red-bordered rectangle in the center of the envelope is your name and rank in Chinese characters. Your interpreter will translate this for you and God help you if you have a name with any Rs in it. The Chinese usually call me "Lonan" because they have difficulty in pronouncing the sound "Ro." After the interpreter has assured someone by the name of O'Shaughnessy, for instance, that his name in Chi-

CONTINUED ON PAGE 18



The colonel got it in the eye when Lieut. Thomas Ronan, at a critical point in a drinking bout, attempted to spit out his *jing pao* without being seen by his Chinese friends.



Its cleaner, brighter **Taste**

means cleaner, brighter teeth—

**Pepsodent** tooth paste

with **Irium**

removes the film that

makes your teeth look dull



Use Pepsodent twice a day;  
see your dentist twice a year



# SOME BET. GENTLEMEN!

## MENNEN PUTS UP

# 2 to 1

### ON YOUR NEXT SHAVE



See if You Can Resist This Proposition . . .



**2 to 1**

is the bet Mr. W. G. Mennen makes on his famous shave creams! A bet *you are bound to win!* Either you prefer Mennen Shave Cream to your present brand — or you get a handsome necktie that costs *us* \$1.

**2 to 1**

Mennen Shave Cream — lather or brushless — will give you extra comfort and the smoothest, slickest shave of your life! *A cleaner shave that keeps you presentable longer!* You're the judge . . . you're the jury!



**2 to 1**

Mennen Shave Cream does everything we say — OR simply mail us the empty carton with a letter of explanation and you'll get the necktie. We can lose this wager . . . *but you can't.*



Accept this sensational 2 to 1 bet. Get Mennen Shave Cream — Lather or Brushless — today.

Bet expires Nov. 10, 1945

*Some Bet, Gentlemen, Isn't It?*

## MENNEN Shave Cream

- Lather Shave (Plain)
- Lather Shave (Menthol-Iced)
- Brushless (Tube or Jar)



Try MENNEN TALCUM for men . . . kills the face shine and doesn't show. America's favorite men's talcum.

★ CUT MORE WOOD. IT MEANS MORE PAPER ★

## LIFE'S REPORTS CONTINUED

nese is *Au Shan Na Si*, which means "deep, smell sweet, to receive, west," and one Mikalokjwitz that his is *Ma ca liou ji ke wei tze*, meaning, freely, "to give an old card to a horse to conquer authority next," he tells them where they are to be at 5 o'clock of a certain evening.

When the guests appear they find five or six tables complete with *kan pei* cups, rice bowls, chopsticks and, of course, name cards. Interpreters rush about telling everyone where to sit. Since the fellow who put your name on the invitation is rarely the one who put it on the name card, and since your name sounds entirely different to different Chinese, seating is always attended by considerable confusion.

As soon as you sit down, a hand reaches over your shoulder and grabs your cup. Another hand comes over with a small pot and your cup is filled to overflowing with white or occasionally pink lightning. The ranking Chinese at the table promptly raises his cup, waves it at everyone and says, "*Kan pei.*" The cups are emptied and the drinkers turn them bottoms up to show that the last drop has been imbibed. The cups are refilled as soon as they touch the table. This goes on and on until near the end of the dinner when the rice is served. After the rice the drinking ends, at least theoretically.

### Poor Captain "La-Pa-Po"

For the first few drinks toasts may be proposed: to China, the U. S., the Generalissimo, the weather, the scenery, or to anything at all, and usually everyone stands up to drink. In a short time the formal toasts are dispensed with and no one bothers to stand, for the simple reason that he may knock over the table.

At one *kan pei* party a Captain Rappaport who rose for a toast after his 12th *kan pei* never did find his chair for the rest of the evening. Rappaport wavered from table to table saying, "I'm Captain La-Pa-Po. Where's my place?" When he was led back he picked up the name card, studied it intently and announced, "This isn't me. I'm Captain La-Pa-Po." An interpreter assured him that he was holding the card upside down but even after reversing it Rappaport, who couldn't tell a Chinese character from an Egyptian hieroglyphic, insisted the name wasn't his. He continued to wander about asking morosely, "Isn't there any place for Captain La-Pa-Po?"

## YOUR SHOES ARE SHOWING!



EMBARRASSING, ISN'T IT?

## YOU NEED SHINOLA

● Alibis won't shine your shoes, so you might as well break down and admit that unshined shoes are not a pleasing sight. On the more serious side, you should keep in mind the fact that a shine is the sign of a healthy shoe. Regular shoe care means longer wear. And that's important to everyone in these days of shoe rationing. It will pay you to KEEP 'EM SHINING WITH SHINOLA.



IN CANADA IT'S 2 IN 1



### Cheryl Walker

talented starlet soon to be seen in Sol Lesser's production, "PARIS CANTEN," says:

"A CANARY PUTS A SONG ON MY LIPS . . . KEEPS ME HAPPY ALL DAY LONG!" Canaries are so easy to care for, so cheerful . . . they are truly wonderful pets! Own a canary. Feed him the finest — FRENCH'S Bird Seed and Bird Biscuit!

LARGEST SELLING BIRD SEED IN THE U. S.



CONTINUED ON PAGE 21





*"But, darling, what will the postmaster say?" laughed Elsie*

"WHAT'LL HE SAY!" roared Elmer, the bull. "He'll say I'm a smart guy! He'll pat me on the back! He'll say my idea of flying mail to the boys in the service by pigeons is colossal!"

"Pigeon mail!" smiled Elsie, the Borden cow. "Why, Elmer dear, haven't you ever heard of V-Mail?"

"Aw, that old stuff!" snorted Elmer. "Look at all the red tape. First, you gotta walk to the letter box. Then, the postman has to walk to the post office. Then, the letter has to have it's silly picture taken before it gets on a plane. I tell you, woman, my system saves the government a lot of trouble!"

"The government," pointed out Elsie, "will go to no end of trouble to get letters to our men in the services fast and sure! For they know that letters from home are as necessary to winning the war as guns!"

"There you go again, taking the joy out of life," groaned Elmer, shooing the pigeons out the window.



"Oh, no!" protested Elsie. "I'm all for putting more and more joy into the lives of our fighting men with tons and tons of short, cheery V-Mail letters! We

should all write as often as we can, for letters are sweet reminders of the things that make home home. The tang of orange juice, griddle cakes dripping syrup, the rich flavor of Borden's Homogenized Milk with cream and Vitamin D in every sip!"

"If I got a penny every time you mentioned



Borden's," sighed crestfallen Elmer, "I could throw a party for servicemen every night."

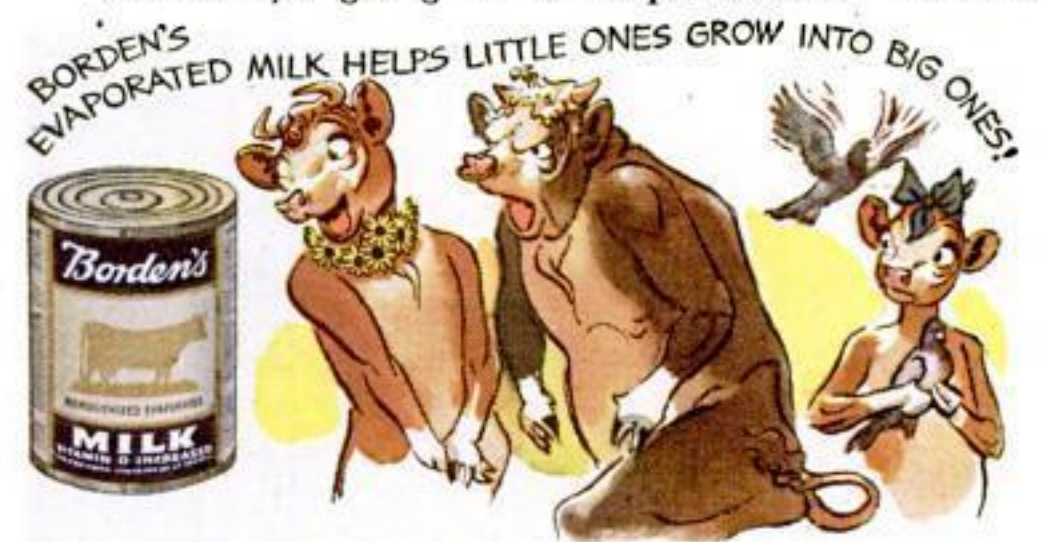
"If you're planning a party," reminded Elsie, "don't forget to serve Borden's Fine Cheeses. Men love them. They taste so wonderful, and they're hearty eating. Full of body-building proteins, you know."

"What're you going to do next," sneered Elmer, "send proteins by V-Mail?"

"No indeed!" exclaimed Elsie. "You can't put any enclosures in V-Mail. What you can put in is news the boys are starving for. Homey news about Junior's football team, and Mary's party, and baby's first tooth. Which reminds me that Borden's Evaporated Milk is helping babies all over America to grow strong teeth

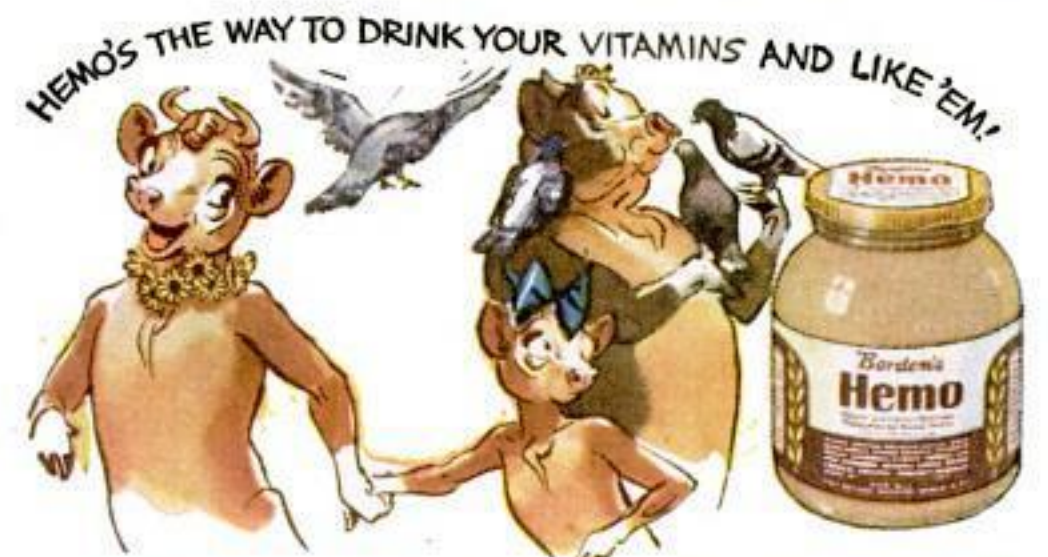
and bones. It's fortified with Vitamin D, you know! And it's sterilized for babies' protection."

"Somebody's going to need protection," warned



Elmer, "if somebody doesn't quit dragging the name Borden's into every discussion that starts in this house."

"It's not only in this house," sparkled Elsie, "that Borden's name is mentioned. Wherever folks talk about vitamins, for instance, Borden's Hemo is sure to be mentioned. For Hemo gives you vitamins and min-



erals in a real food drink. Do you more good that way, according to dietetic experts."

"If you weren't such an expert on everything," groaned Elmer, "my little pigeons would have my letters halfway across the ocean by this time! And I wouldn't be all tired out listening to you and your arguments."

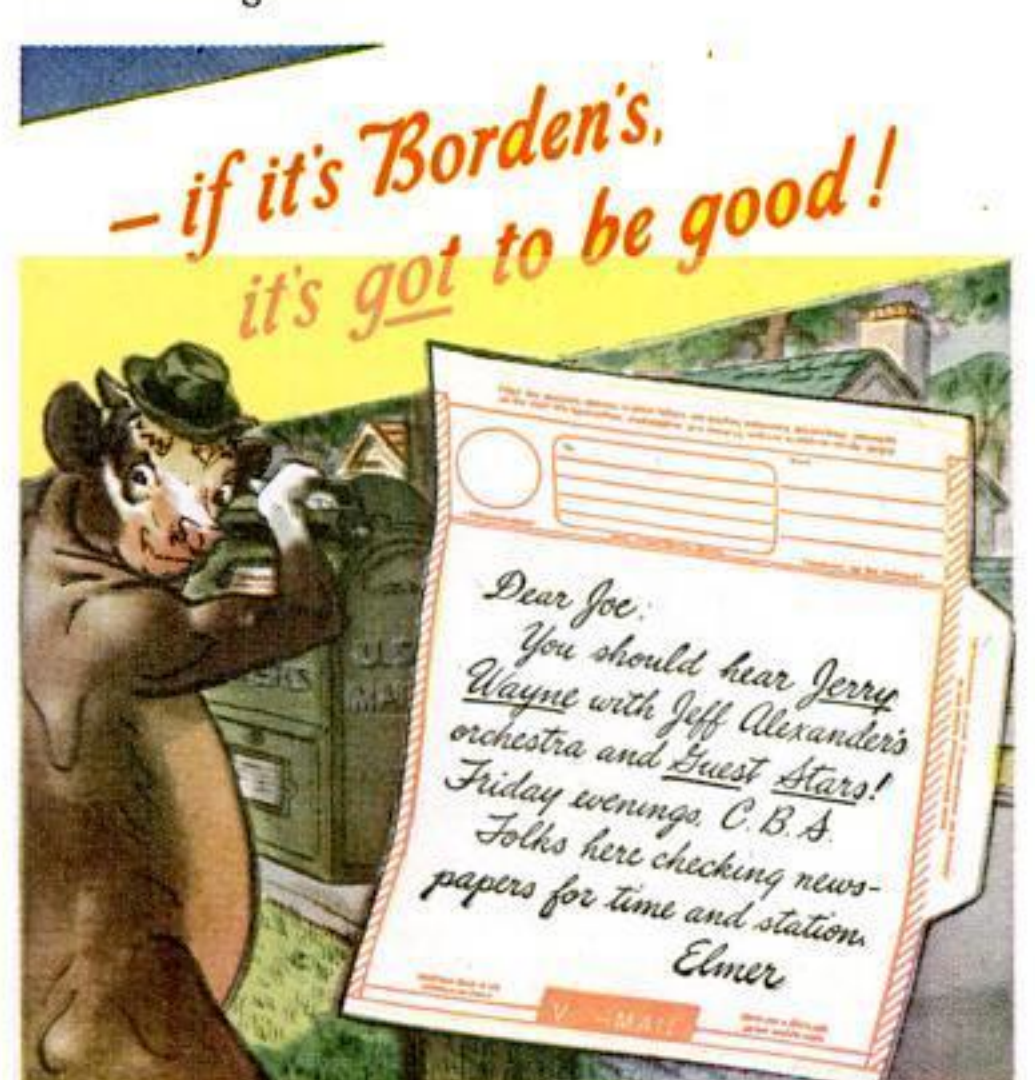
"What better way can you pep up, dear, than with a



nice big dish of Borden's Ice Cream and Milk Sherbet?" asked Elsie. "They're fine, energizing foods as well as grand, refreshing treats, you know."

"Aw, tell it to the Marines!" snapped Elmer.

"You don't have to tell a Marine," smiled Elsie, "or a soldier, or a sailor, or anybody about Borden's, even by V-Mail. For everybody knows—if it's Borden's, it's GOT to be good!"



© The Borden Company





When dad's eyes are bigger than your marketing list!

What if he does buy twice as much food as you need! There's nothing to worry about *provided you have the right refrigeration to keep the food fresh.* And, one of these days, you can have exactly the refrigeration best suited to your needs.

For instance, you can have a big, well-planned Westinghouse Refrigerator with 5 kinds of cold. There are special places for everything . . . meat, fruits and vegetables, staples and leftovers, beverages...and a generous section for frozen foods.

Or, if you want to store larger quantities of frozen meats, fruits and vegetables, you can have one of the wonderful new Westinghouse two-temperature Refrigerators. These beauties have plenty of room for standard re-

frigeration *plus* a special large-size compartment where you can both freeze and store a big supply of frozen foods.

Then there's a third type of Westinghouse refrigeration coming. It's a handsome, new, *upright* Home Freezer . . . designed as a companion to the Westinghouse Refrigerator. It will freeze and store enough food for six months or a year. You'll like its "Reach-in Convenience", that makes it easy to put food in or take it out.

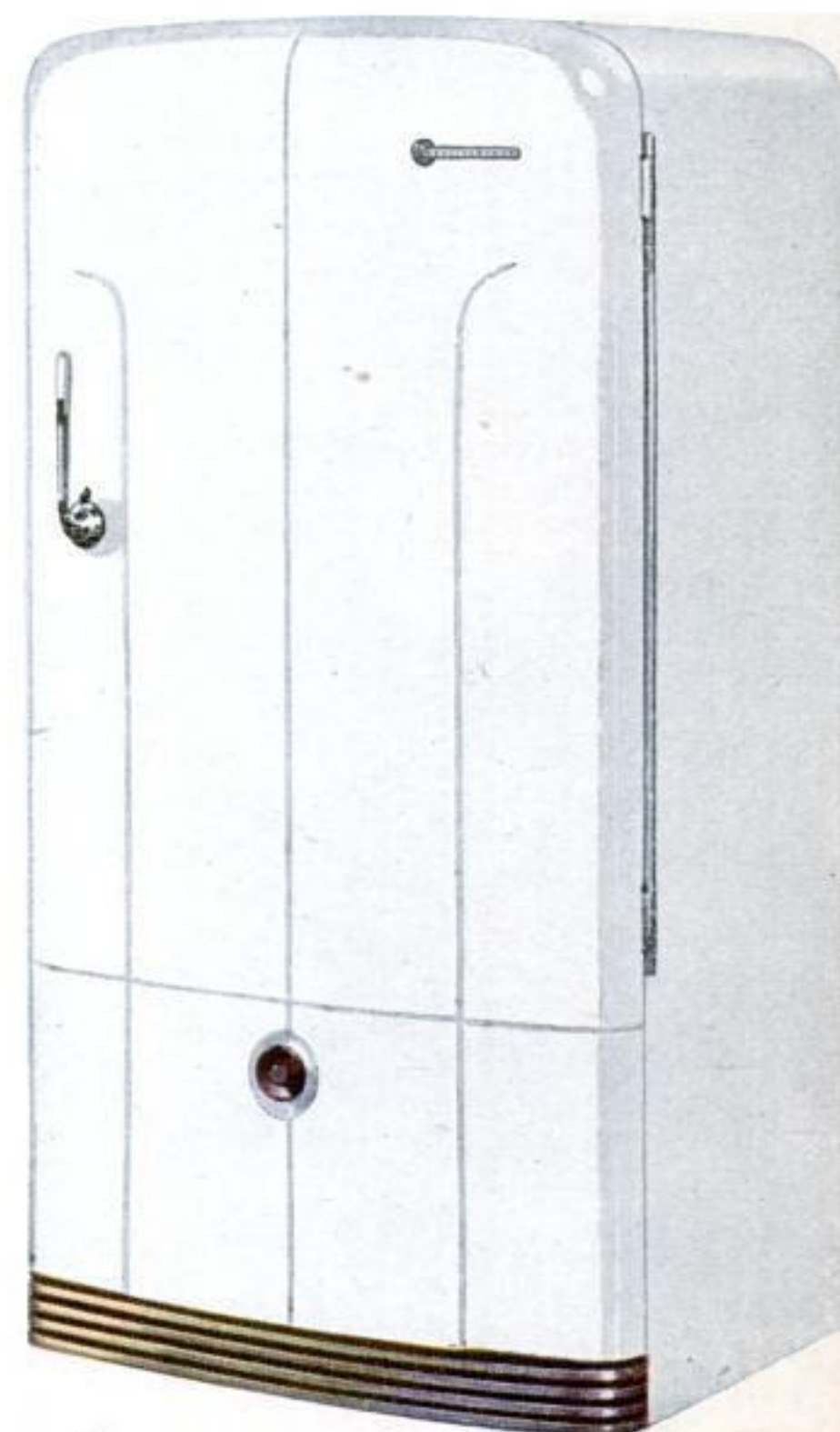
No, these grand Westinghouse Refrigerators and Home Freezers are not available now. But some glad day you can count on Westinghouse for exactly the type of protection you need to keep your food fresh and delicious.

**30 MILLION**  
Pre-war Westinghouse  
Electric Home Appliances are your  
promise of still finer ones to come

# Westinghouse

## Refrigerators and Home Freezers

WESTINGHOUSE ELECTRIC CORPORATION • Plants in 25 Cities . . . Offices Everywhere • MANSFIELD, OHIO  
Tune in John Charles Thomas, Sunday 2:30 EWT., N. B. C. • Hear Ted Malone, Mon. through Fri. 11:45 A.M., EWT., Blue Network



The New Westinghouse Home Freezers will be *upright* with "Reach-in Convenience" just like this household Refrigerator





## And he spoke with an angel's tongue

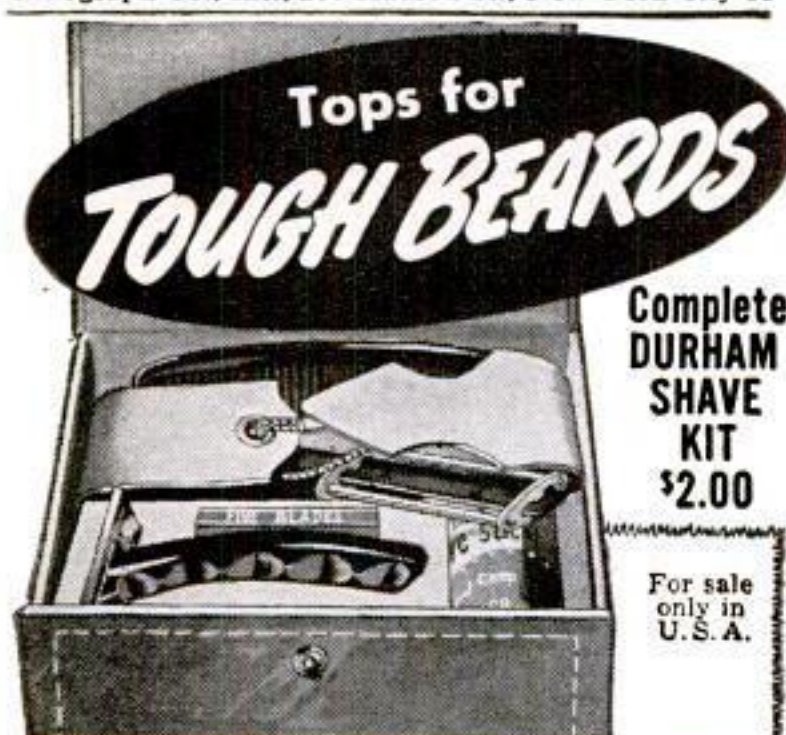
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Usually the early toasts at a *kan pei* party will actually be drunk. It is when a man feels that a few more drinks will put him on his hands and knees that the trickery begins. When Chinese and American capacities are about evenly matched, the battle of wits is indeed a joy to behold.

A favorite device is to spill three quarters of your drink surreptitiously and then *kan pei* with an almost empty cup. You simply jump to your feet, offer a *kan pei* to another diner and then hastily down the *jing pao* and display the empty cup. You demand that the recipient of the toast down his and often he can be browbeaten into doing it although he undoubtedly suspects you.

Then it becomes your turn to be watchful. If your victim tries the same trick, stop him before he can down the drink. If he insists that there is as much in his cup as in yours, offer to exchange cups with him. The rest of the table will insist that this is a perfectly fair arrangement and he'll have to do it to save face. But watch him. He may divert your attention and pour the *jing pao* into the nearest potted plant. Another stunt is to empty the cup into the rice bowl or cup of the fellow next to you.

### A private drinking duel

It is not always necessary to *kan pei*. There are other toasts, like *pan pei*, which means "half a cup," and *swee pien*, which means "as you like," that is, drink as much as you like. Few Chinese, however, will say *swee pien* or *pan pei* and, if the American does, they will shout him down unless he is a man of strong character. Quite often this strength of character develops after a *jing pao* hangover.

One of my favorite characters, a pleasant and likable Chinese colonel, knows just when he has reached his capacity and he'll pull every trick in the book to keep from exceeding it. On Chinese New Year the Colonel and I were guests at a small party in a neat little bungalow.

Soon we became engaged in a private drinking duel. After a while I saw that his eyes were bloodshot, a sure sign that he was pretty well *jing-paoed*, and I knew he had to be watched. But the colonel caught me flat-footed with one of the simplest tricks of all. He offered to *kan pei* me and when I found that his cup was only half-filled I insisted that he fill it. Then I tried to get rid of some of my own *jing pao*, but he kept a close eye on me. Finally we both

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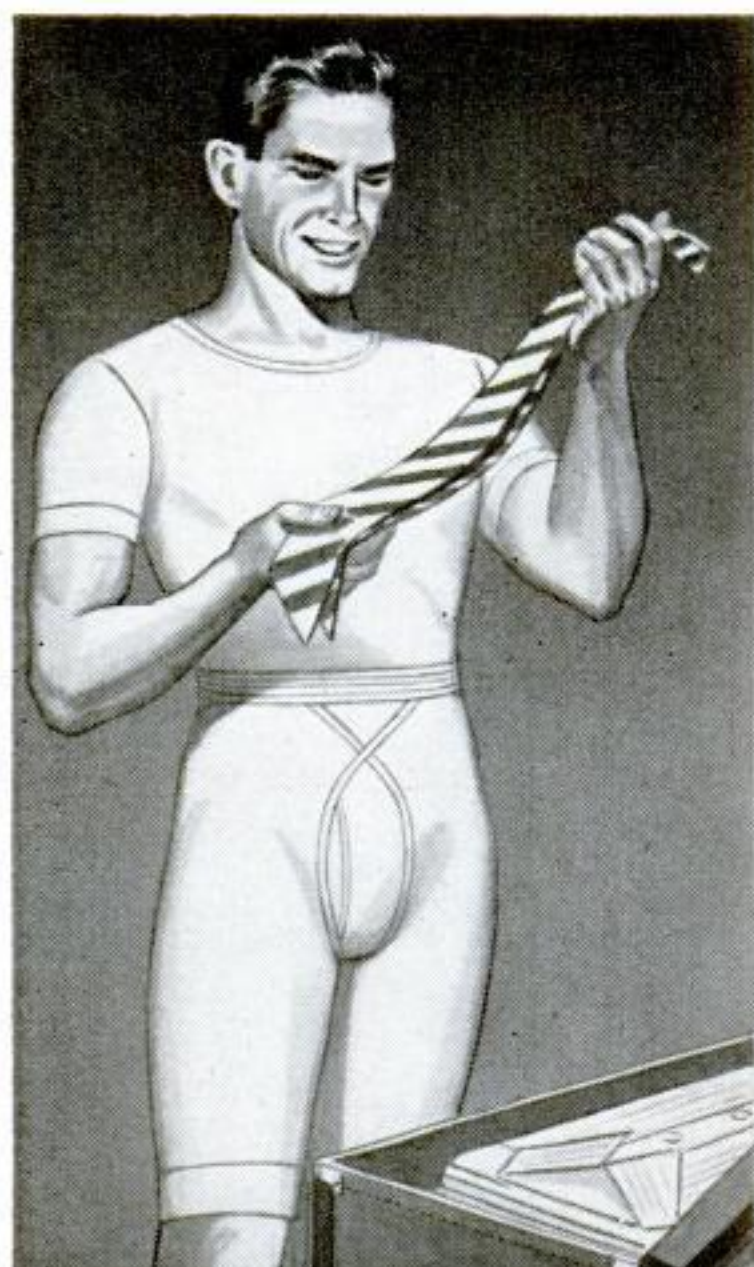
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## LIFE'S REPORTS CONTINUED

tossed off our drinks. A moment later the colonel pointed to something behind me. I turned but, suddenly suspicious, glanced back just in time to see the colonel, who had held his drink in his mouth, spit it on the dirt floor. It was too late to do anything and I let it pass.

It was at least 20 minutes before I saw an opening. Another Chinese officer was leaning over talking to the colonel when I toasted him. We hastily checked each other's cups and downed the drink. The colonel, as I had anticipated, turned back to resume his conversation with the other officer and I turned triumphantly and spit out the wine in my mouth. At that moment my CO, a colonel, was leaning over behind me to talk to the Chinese on my left. The drink hit him squarely in the eye, in fact in both eyes, and I think a little even ran down his neck. That is why I am still a lieutenant.

### The major's technique

Some Americans become artists at this game of not drinking. I know one fellow who professes to like *jing pao* and who says he can drink any Chinese under the table, but, for purely sporting reasons, he'll avoid taking a drink all evening if he can escape it. His proudest boast is that he once *kan-pei*-ed every Chinese at a large gathering without drinking a drop.

One U. S. major has perfected a technique which I've seen used often and, in fact, which I've used myself with some success. He empties his cup on the sly and then goes through the motions of swallowing his drink. Then he puts his head back so that everyone can see his bobbing Adam's apple. Then he puts his cup down with a grimace to show how hard it went down. The Chinese don't mind your making a face. They know the stuff is no good.

This major became enamored of his own acting and began to add little touches. He didn't care if the Chinese thought he was tight so long as he knew he was sober. He took to singing uproariously and teetering unsteadily. One night, as he staggered out of a *kan-pei* party at which he hadn't had a drink, he lurched a little too realistically, lost his footing and fell down a flight of stairs. As he rose in a daze he heard a sergeant whom he had lectured that afternoon about excessive drinking whisper to a pal, "Boy, the old guy sure is cock-eyed tonight." A captain who offered to help the major home was transferred the next day.



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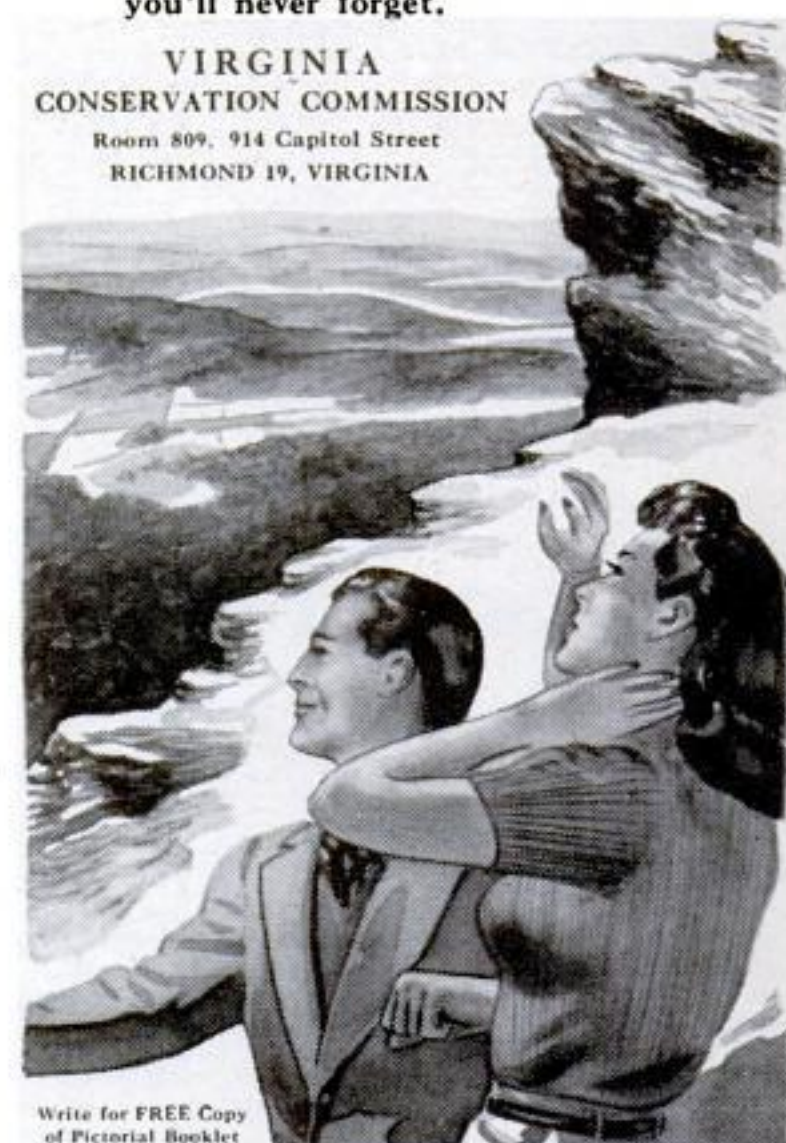
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# AIR POWER

## *We've Got It — Shall We Keep It?*

Air power proved the deciding factor in defeating Germany, admits the captured German general Von Rundstedt. It has played perhaps an even bigger part in the crushing of Japan. There is no question that air power is vital to the future security of the nation.

These facts arouse searching questions among thoughtful Americans:



**Q** Now that we have achieved air supremacy, is it going to be easy to retain it in the future?

**A** No. We can lose our air edge unless new and better aircraft equipment is constantly being designed and produced. This requires a complex development cycle of many steps, all taking time, skill and effort.

**Q** What are the steps?

**A** Army and Navy outline requirements. The aircraft industry, applying the results of continuing research, designs prototypes. Army and Navy test and prove them. Industry makes further refinements. Then follows a production run in sufficient numbers to permit adequate testing by tactical units, with further refinements to follow. Only then is the equipment proven, ready for mass production in an emergency.

**Q** How much time does this involve?

**A** At least five years.

**Q** Does that mean that the first-line equipment with which we won air superiority was actually under development before the war began?

**A** Yes. As typical examples, the Hamilton Standard Hydromatic propeller was conceived in 1935, the Pratt & Whitney Double Wasp engine in 1937, the Vought Corsair fighter in 1938, the original Sikorsky helicopter in 1938.

**Q** How much of the aircraft job was done by the basic aircraft industry itself?

**A** All the designing and developing. Up to 1942, all the production of airframes and propellers and 98% of engines. Since then, over nine tenths of the airframes and about half of the propellers and engines. The rest were built by auxiliary producers.

**Q** How quickly did the auxiliary producers get into full production?

**A** Eighteen months to two years.

**Q** With our accumulated knowledge and experience, could we, in case of future emergency, shorten that development and production cycle?

**A** Possibly, but as performance goes up, it takes more engineering skill, more time, more money than ever.

**Q** What is the American aircraft industry doing to keep ahead?

**A** It is well along in the development of radically advanced equipment.

**Q** What are foreign countries doing?

**A** Exactly the same thing.

**Q** Who will command the air in 1950?

**A** The nation with the strongest and most technically competent aircraft industry, the most effective air force, the most efficient air line system, the most air-wise public.



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LIFE'S COVER

U.A. W. member Fred Vondrak who appears on LIFE's cover this week, fresh from work in the Ford River Rouge plant which appears in the background, is a veteran automobile worker. He has worked for Henry Ford 11 years and during most of the war period helped build B-24 bombers in giant Willow Run at \$1.30 an hour. A buffer of distributor points, work which requires a keen eye and a steady hand, he is now back at the Rouge plant earning \$1.10 an hour.

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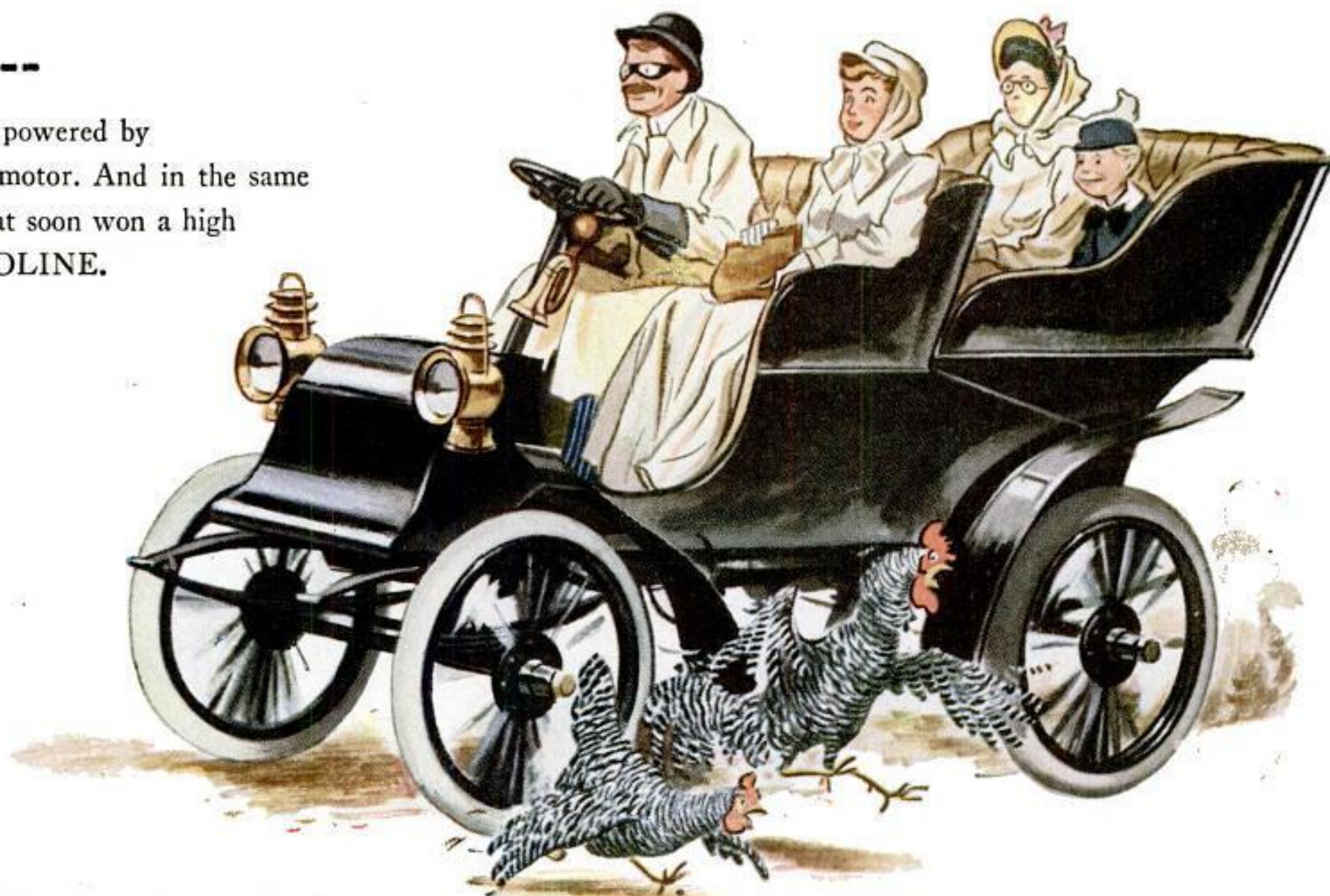
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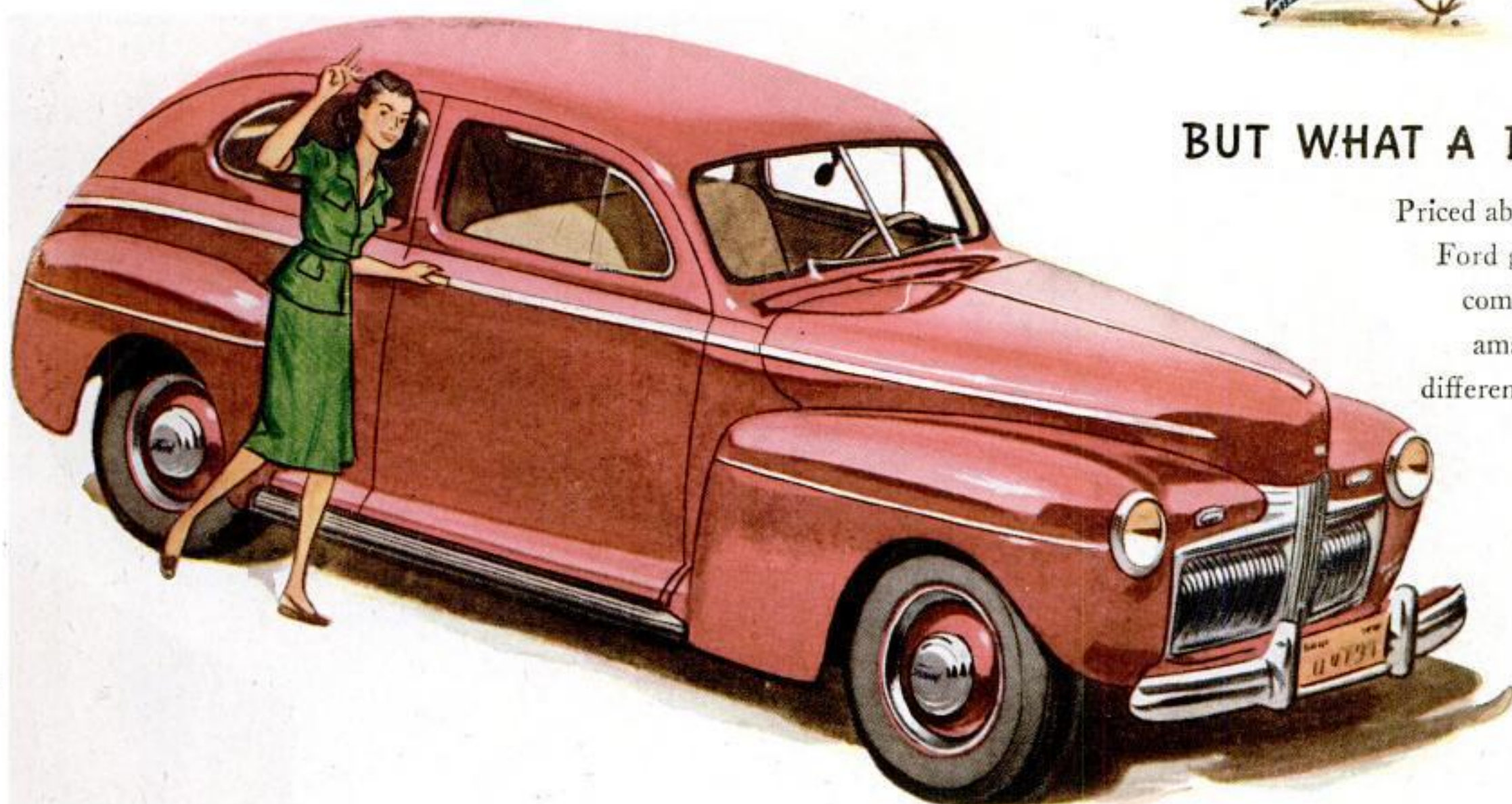
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## LIFE'S PICTURES

LIFE Staff Photographer William Clay ShROUT Jr., who photographed the U.A.W. (cover and pp. 103-111), spent three days driving around Detroit and talking with people before he snapped one picture. He did this to get the "feel" of the auto labor movement. Translating that story into pictures he found less baffling, however, than Detroit's street system. After each trip he had to return to his hotel to re-orient himself before starting out again.

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"You see, we'll be free to go where we please, because I'll have quit work and retired on an income for life. There'll be a check for \$200 coming in, each month, every month . . . when I reach 60.

"I can imagine what our neighbors in Westfield will say—"They must have inherited money!" But the truth is, we've never been rich. I never inherited anything except a gold ring. All I've had was a good job and a fair income. And with the children growing up, it was almost impossible to save any money.

"In fact, till I was 40, the future used to worry me. Would I ever be able to relax and take life easy? Would my whole life be just working to make ends meet? And suppose I couldn't go on working—would Eileen and I have to look to the children for help?

"I used to wish there was an answer for people like us. And then, one day, I discov-


ered that there *was*. I read an ad about the Phoenix Mutual Retirement Income Plan, and sent for the booklet it offered.

"This booklet told me how, with such a plan, I could get a guaranteed life income starting at age 60. And it wasn't an income for myself alone, but for my wife as well—as long as either of us lived. It protected her with life insurance, too—in case I didn't live until retirement age. And it even assured a disability check every month if, before age 55, total disability should stop my earning power for six months or more.

"Not long after, I qualified for a Phoenix Plan. Today, Eileen and I can look forward to the kind of life we've always dreamed of—secure and free from money worries, with an income guaranteed for life."

## Send for Free Booklet

This story is typical. Wouldn't you like to be sure of your own future? Send the coupon below and you'll receive by mail and without charge, a booklet that tells about Phoenix Mutual Plans, and how to qualify for them. Assuming you start at a young enough age, you can get an income of \$100 to \$200 a month or more at age 55, 60, 65 or 70. *Similar plans are available for women.* So don't delay. Don't put it off. Mail the coupon now.

 <b>PHOENIX MUTUAL</b> <i>Retirement Income Plan</i> <b>GUARANTEES YOUR FUTURE</b>	
<b>PLAN FOR WOMEN</b>	<b>PLAN FOR MEN</b>
PHOENIX MUTUAL LIFE INSURANCE CO. 634 Elm Street, Hartford 15, Conn.	
Please mail me, without cost or obligation, your illustrated booklet, describing Retirement Income Plans for women.	
Name _____	Name _____
Date of Birth _____	Date of Birth _____
Business Address _____	Business Address _____
Home Address _____	Home Address _____

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# Where the wire and telephones went

More graphic than words have been the on-the-spot photographs of what the telephone and electronic devices did in war. Wherever they are they bind our men together.

The Bell System has concentrated on making this equipment for our armed forces. That has caused shortages of switchboards, central office equipment and telephones here at home.

Somewhere in the Pacific, American soldiers and native boy transport Signal Corps equipment with the aid of a water buffalo. These animals saved the day many times in bringing up heavy equipment.



BELL TELEPHONE SYSTEM



LISTEN TO "THE TELEPHONE HOUR" EVERY MONDAY EVENING OVER NBC





SOLDIERS OF THE 11TH AIRBORNE DIVISION WATCH THE AMERICAN FLAG FLAP IN THE BREEZE, ABOVE THEIR CONTROL POINT ON ATSUGI AIRFIELD NEAR TOKYO

# U.S. OCCUPIES JAPAN

PHOTOGRAPHS FOR LIFE BY BERNARD HOFFMAN, CARL MYDANS AND GEORGE SILK

At dawn on Wednesday Aug. 29 the peaceful invasion of the Jap home islands began. In an impressive procession the 11th Airborne Division landed in U.S. transports on Atsugi airstrip near Tokyo. At about the same time, 18 miles south of Atsugi, 10,600 U.S. and British marines waded ashore from landing barges to take over the great Yokosuka Navy Yard. Eight hours after the first airborne troops had secured the airfield, the Supreme Allied Commander, General Douglas MacArthur (*see pp. 30-31*) arrived.

In a short time and without any opposition, the Americans fanned out and assumed control of key positions. At Yokohama (*p. 32*), where MacArthur set up his headquarters, units of Lieut. General Robert Eichelberger's Eighth Army moved in from landing barges. Photographers, flying low over Japan's gutted cities, made the first close-ups of bomb havoc. Correspondents in dilapidated Jap cars of American make bounced into the center of ruined Tokyo and Yo-

kohama. They found most of the Japanese docile, impassive, usually cooperative and universally anxious to express relief that the war was over. The majority seemed thinner, more haggard and less well-dressed than before the war. To many observers it seemed that the Japs had not yet fully felt either the impact or the implication of defeat. The surrender had knocked them off balance, not because they had still expected to win but because they had expected to be called on to die for their emperor. For many of them the real humiliation of surrender was the fact that they had to acknowledge the Chinese as conquerors.

The Japanese were going about their affairs in usual businesslike fashion. They still ran their own radio broadcasts and their own newspapers. Their correspondents mingled with Americans on equal footing. And the Americans, while officially aloof, appeared to be in no hurry to put Jap noses in the atomic dust of defeat. Asked what he thought of his new

ruler, General MacArthur, one Jap told a U.S. reporter, "He seems a reasonable man and his understanding of our problems makes him much more desirable as supreme commander than most other generals."

The general's first official speech as Japan's head man indicated he might now use the velvet glove as gracefully as he had wielded the sword. At the surrender ceremonies he solemnly stated that the Japs and their conquerors did not meet "in a spirit of mistrust, malice or hatred . . . but rather it is for us, both victors and vanquished, to rise to that higher dignity which alone benefits the sacred purposes we are about to serve." But first he gave them a brusque reminder. All issues, he said, had been "determined on the battlefields of the world and hence are not for our discussion or debate."

On Sunday Sept. 2, aboard the new 45,000-ton battleship *Missouri*, before representatives of nine Allied nations, the Japanese signed the surrender.





LONELY JAPANESE NAVAL OFFICER AWAITS THE AMERICANS AT ATSUGI AIRPORT

# MACARTHUR ARRIVES

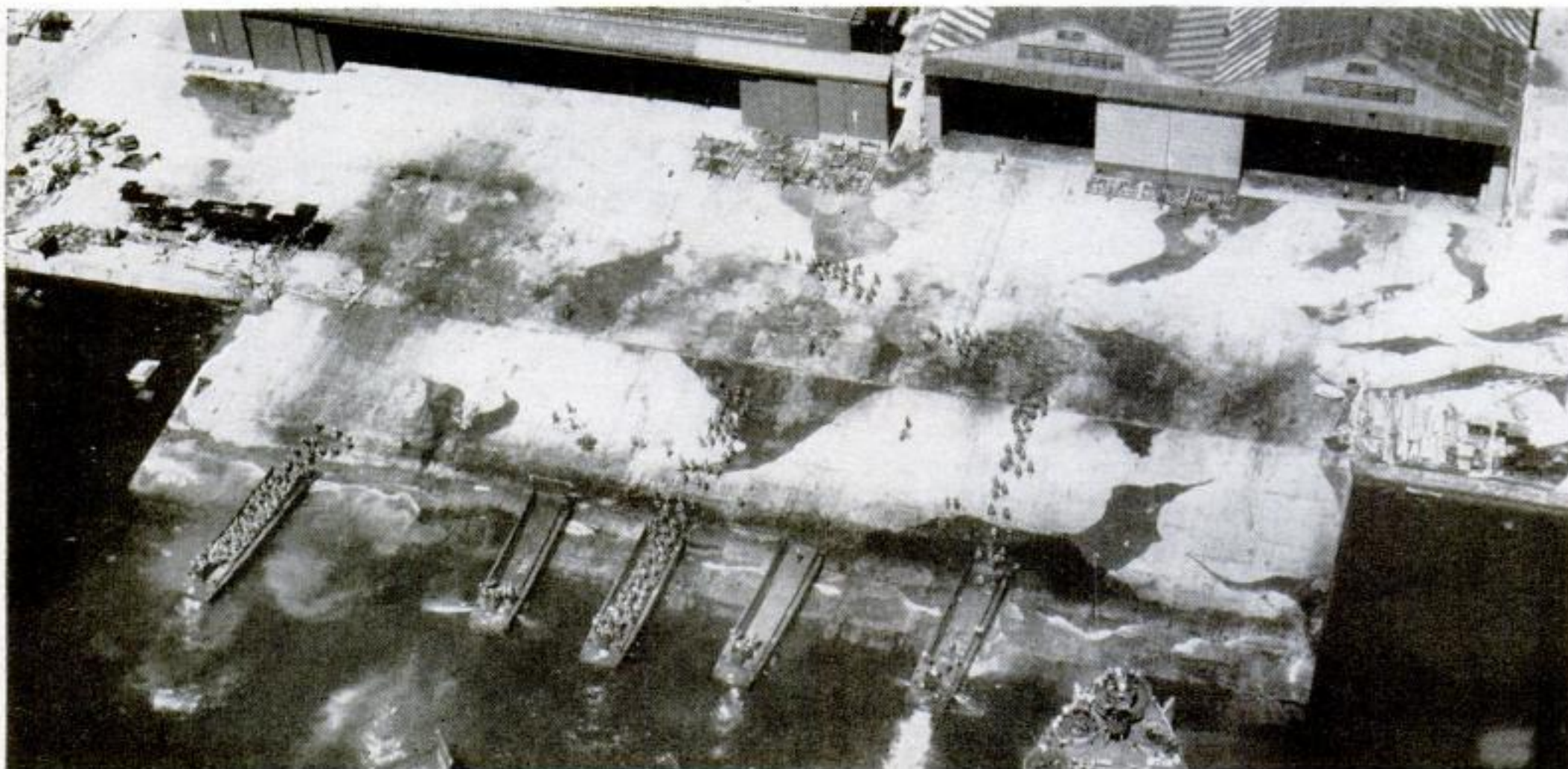
## GENERAL TAKES OVER RULE OF JAPAN

While the marines were still pouring onto the beach at Yokosuka and the Superforts were taxiing off the runways at Atsugi airport with clockwork precision, a gleaming silvery C-54 swept in over Atsugi. As the four-engined plane landed, reporters, photographers and troops dashed for it. A band started playing. A ramp was let down. From the door of the plane, named *Bataan*, General MacArthur emerged first. He took two steps down and two puffs at his corn-cob pipe, then paused dramatically. The first foreigner in 2,600 years of Jap history to take custody of the land of Nippon gazed out over his new domain. Then he walked down and shook hands warmly with old friends. "Well, we got here, didn't we," he said. The general had a greeting for everyone and a short MacArthurlike statement for the 50 reporters, Japanese and American. "From Melbourne to Tokyo is a long road . . ." he said. "But this looks like the pay-off. . . . The Japs seem to be acting in complete good faith."

Flanked by his honor guard, MacArthur began to walk toward his waiting car. But the photographers wouldn't let him go. Suddenly there was a mild mix-up and an overeager Japanese newsreel man shoved himself in front of an irate American photographer. MacArthur, unsmiling, remarked, "You'll have to make him capitulate."



BAND PLAYS FOR MACARTHUR after his arrival at Atsugi airstrip as photographers crowd close for pictures. The usually strained, impatient MacArthur was relaxed and happy



LANDING AT YOKOSUKA was made by marines and sailors from landing craft and transport (right, foreground). In back-

ground are naval air-station hangars. This naval base, 30 miles from Tokyo, had facilities for entire Jap fleet at full strength.



ON ATSUGI AIRFIELD American B-29s carrying Airborne troops taxi down runway after landing. On the field





as he puffed his pipe. This time he did not mind posing patiently for the cameramen. He even turned so that a Japanese photographer could take his picture. When the airborne divi-

sion band had finished, the general walked over quickly to the leader and said, "Thank you very much. I want you to tell the band that that's about the sweetest music I've ever heard."



in accordance with MacArthur's pre-invasion instructions, are hundreds of Jap vehicles to transport the Americans.



**TWO GIs AND A JAP** (left) push an old American-make car along the Atsugi airfield to get it started. Other troops, mem-

bers of the 11th Airborne Division, wait with their equipment to pile into Jap vehicles, some of which use charcoal for fuel.





**HOSTILE SILENCE** greeted the Americans at first. Later, strict discipline broke. Says Correspondent White,

"The initial hostility was gone—it was there, we knew, underneath. The Japanese would accept us and the sullenness

would fade from their eyes in time; but the sullenness in their hearts we would have to reckon with for years."

# THE PEOPLE

## THEIR NATION IS BEATEN

## BUT THEY ARE NOT BOWED

From Atsugi airfield the Americans drove to U. S. headquarters in Yokohama. Led by the Japanese, they rode through pretty country, seemingly undamaged by war. Later, going back over routes chosen by them, they saw plenty of devastation.

"The attitude of the enemy," reported *Time* and *LIFE* Correspondent Teddy White who had flown in from Okinawa, "was very curious. They acted as if we were partners in a common cause. Japs saluted us; we saluted them. Domei correspondents and photographers covered Atsugi airfield. Japanese diplomats

and newsmen shook the hands of American correspondents, and interpreters rushed back and forth, smiling, beaming with intensity their goodwill." All the correspondents had the same story: the country is beaten, her industries crushed, but the people themselves are neither beaten nor crushed. Their slavishness and obsequiousness is offensive. It implies the meeting of two peoples on the basis of friendship, equality, respect, cordiality. It comes because we are stronger, because we beat them, not because they feel that they or their country have done wrong.

**DESOLATION IN YOKOHAMA** is complete except for waterfront area where U.S. headquarters are located. Beyond this small section are endless acres of ruins.



**NEW GRAND HOTEL IN YOKOHAMA** is U.S. headquarters. Concrete and earthquake-proof, it is praised by guide books as having "fitments of best American hotels, with 120 rooms."





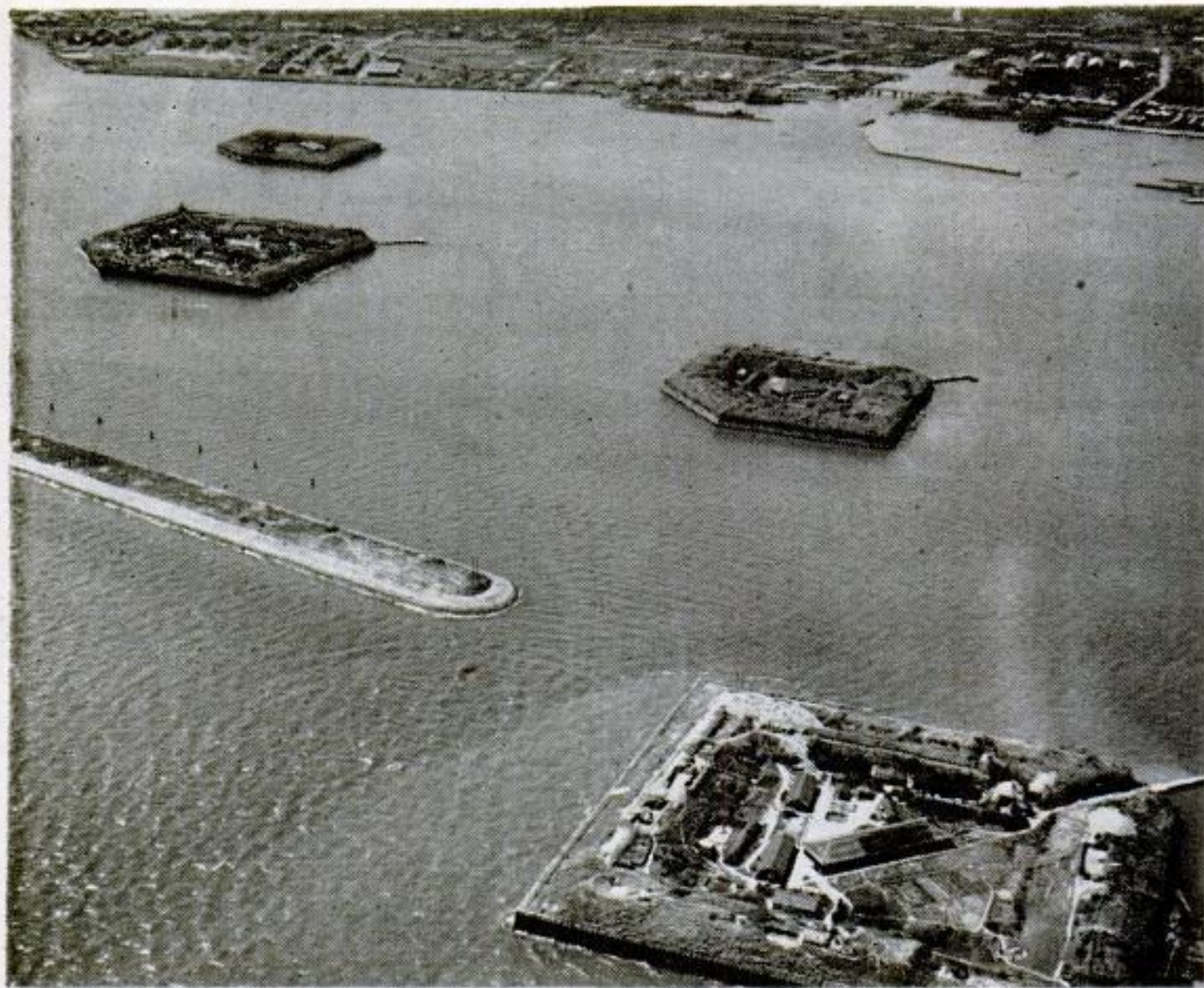


**HIS BACK TO THE CONQUERORS**, Jap soldier guards route to Yokohama. Interpreters explained to skeptical Americans that the turning of backs by guards all along the

Americans' route was a mark of great respect. Backs were always turned when the emperor passed. People standing in their doorways turned their faces away as the Americans drove by.



## U. S. OCCUPIES JAPAN CONTINUED

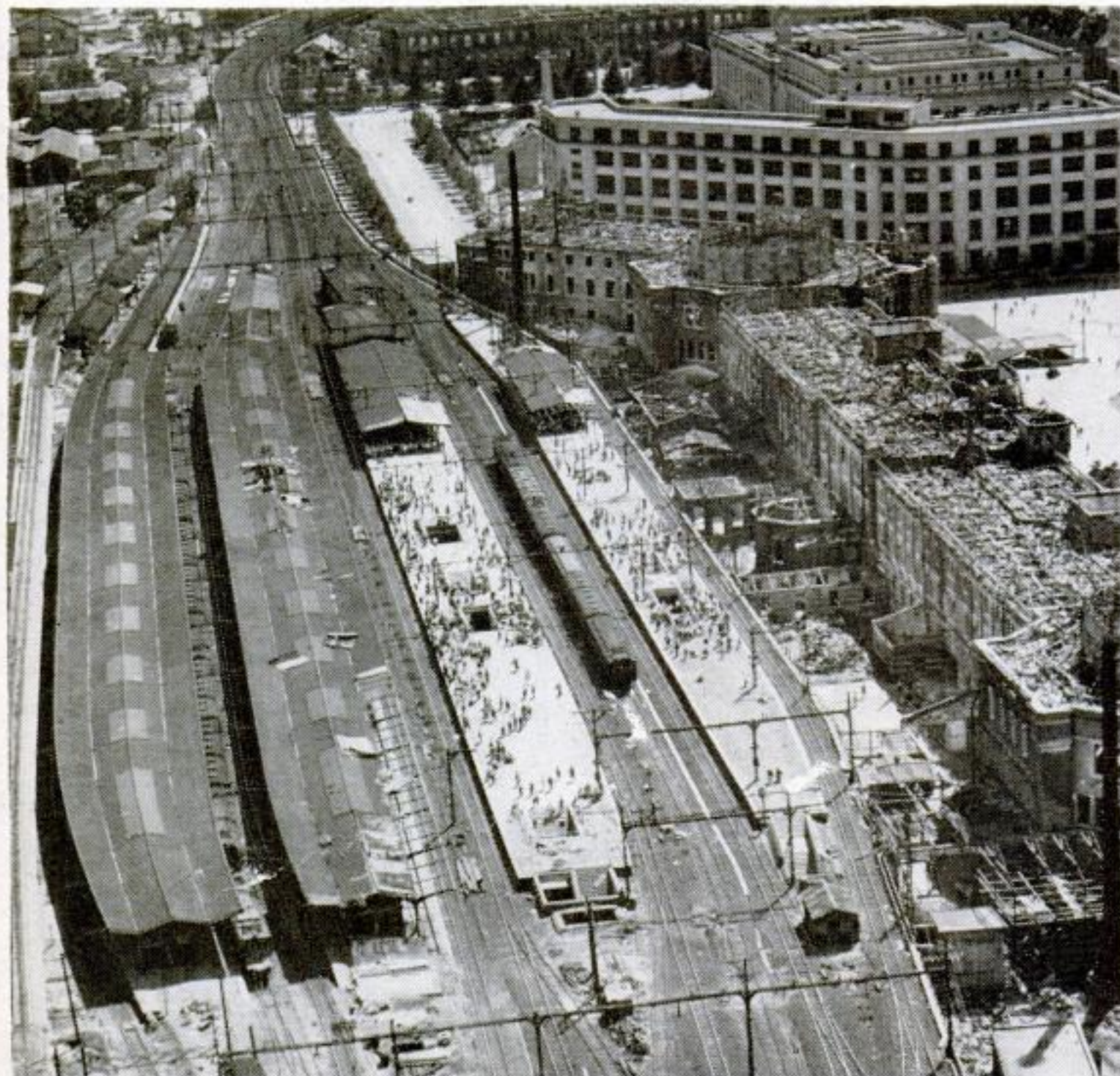


**IN TOKYO HARBOR** flak islands, heavy with concentrations of anti-aircraft batteries, protected city, made it a tough bomber target. U. S. planes never knocked out these islands.

# BATTERED TOKYO

## HALF OF THE CAPITAL IS DESTROYED

Flying low over the peaceful pieces of Tokyo last week, Americans were confronted by devastation more complete than official air reconnaissance photographs had indicated. Of Japan's major cities only atom-bombed Nagasaki and Hiroshima (LIFE, Aug. 20) had been more thoroughly destroyed than the capital. According to the Japanese, Tokyo has been 53.8% razed as a result of U. S. bombing missions. Since the initial B-29 raid last November the city has been a regular high-priority target despite the especially heavy flak encountered. Of its 6,778,804 prewar population only about 2,400,000 are still living in Tokyo. The incendiary bombs killed as many as a half-million of the population and burned out almost all of its war industries.



**TOKYO'S COMMUTERS** wait for suburban trains, which are still running, on the platform of an electric railroad station in the relatively undamaged, modern section of the city.



**INDUSTRIAL SECTION OF TOKYO** along the Sumida River was razed by incendiary B-29 raids which burned out all but the most permanent concrete and steel structures. Even





some of these lost roofs and floors. Across the river (*in background*) whole blocks were completely leveled. Bridges and highways are still passable but traffic is almost nonexistent because

of the lack of gasoline. A Russian observer living in Tokyo estimated that nearly 1,000,000 of the city's homes and buildings had been destroyed, leaving only 380,000 still standing.





EMPEROR HIROHITO'S PALACE (LEFT) STILL STANDS IN TOKYO ALTHOUGH ILL-AIMED BOMBS DURING LAST SPRING'S RAIDS LEVELED THE "OUTER PALACE" (RIGHT)

# HOMELAND

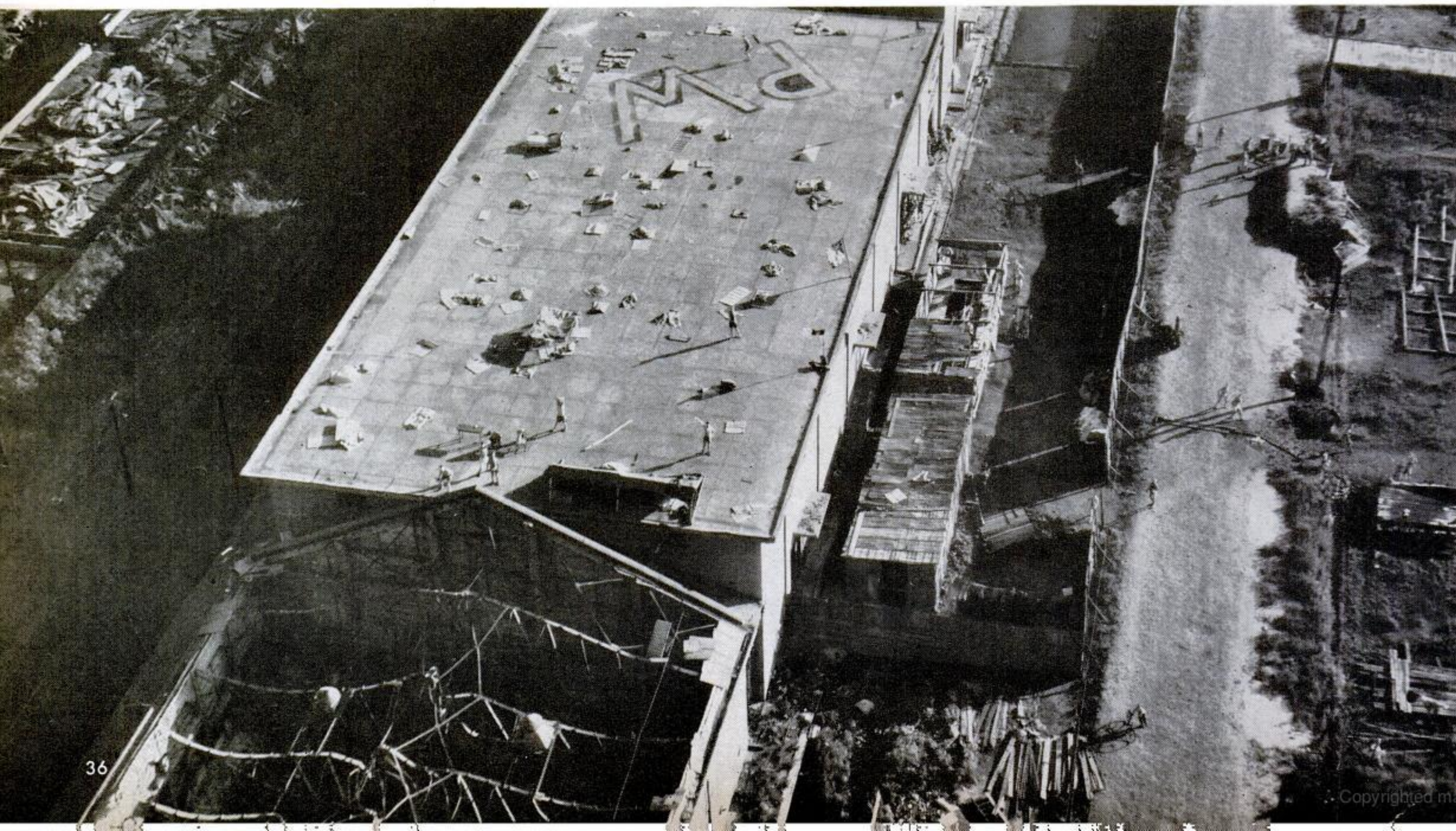
## IT IS SEEN FROM AIR

For three days last week LIFE Photographer George Silk flew daily from Iwo Jima to tour the Japanese homeland in a B-29. He thus became the first foreigner to get a comprehensive look at the secretive islands and come out with a full record of what he saw.

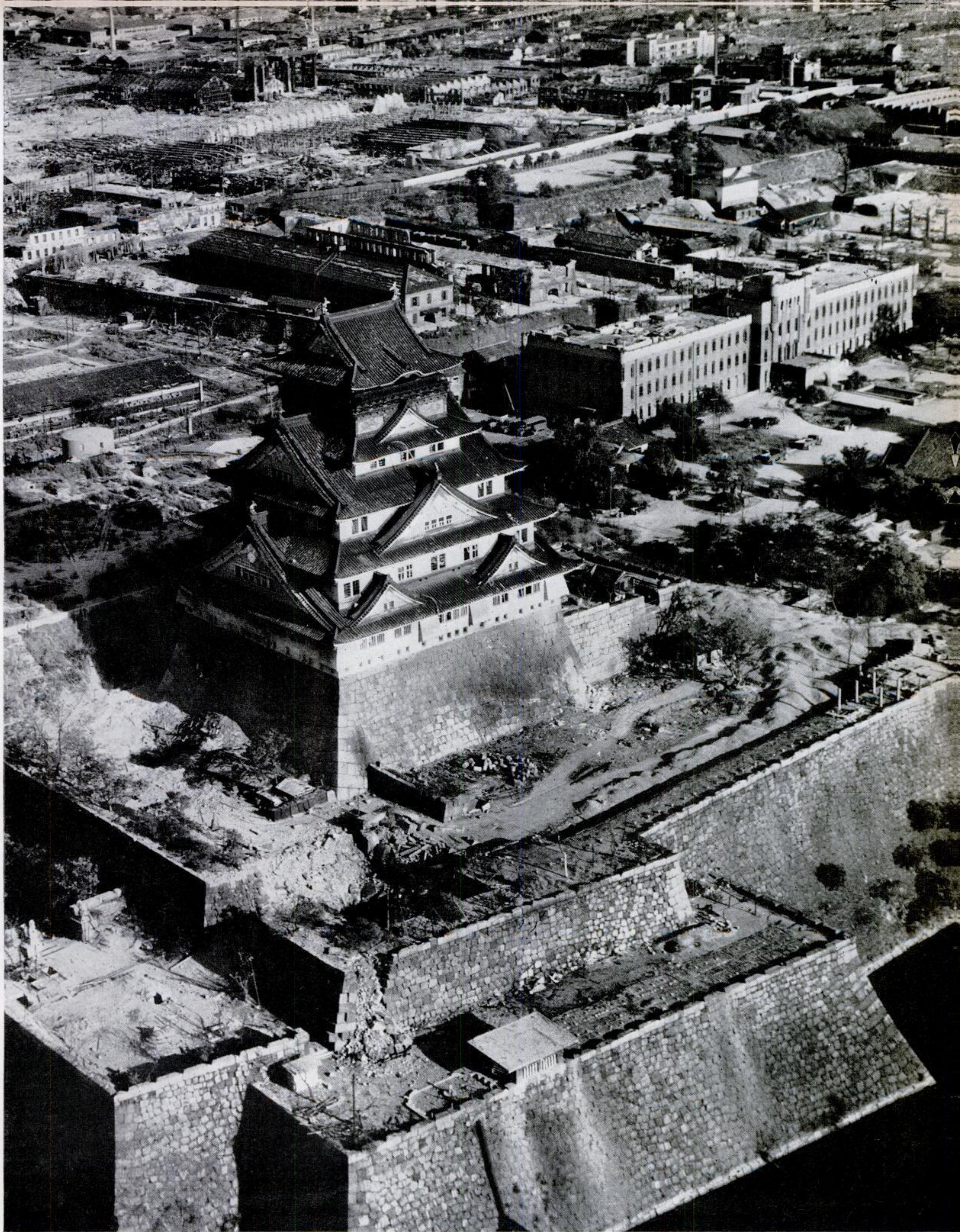
Silk flew over drowsing villages that held no hint of war (*next page*) and cities that were ashes except for

carefully spared areas as above. He saw ancient shrines, untouched, factories without a sign of life among their skeletal remains. He saw the absurd remnant of Japan's once-bristling fleet, meekly anchored for surrender. He saw remnants of the Japanese air force. Tidily ranged on some 30 flying fields were 1,000 planes in excellent fighting trim but useless because they had no fuel.

FROM THE ROOF OF THE TOKYO WAREHOUSE IN WHICH THEY WERE INTERNED SOME U. S. PRISONERS OF WAR SALUTE U. S. PLANE THAT FORETELLS AN EARLY RELEASE







**THE CASTLE AT OSAKA** rises out of the ruins of Japan's second city, now about 30% destroyed. The castle, an army garrison, was built in 1928 to commemorate Hirohito's en-

thronement. It stands on the foundations of a fort begun by the feudal Toyotomi family in 1583. From 30,000 to 60,000 laborers worked day and night for three years to build the castle.

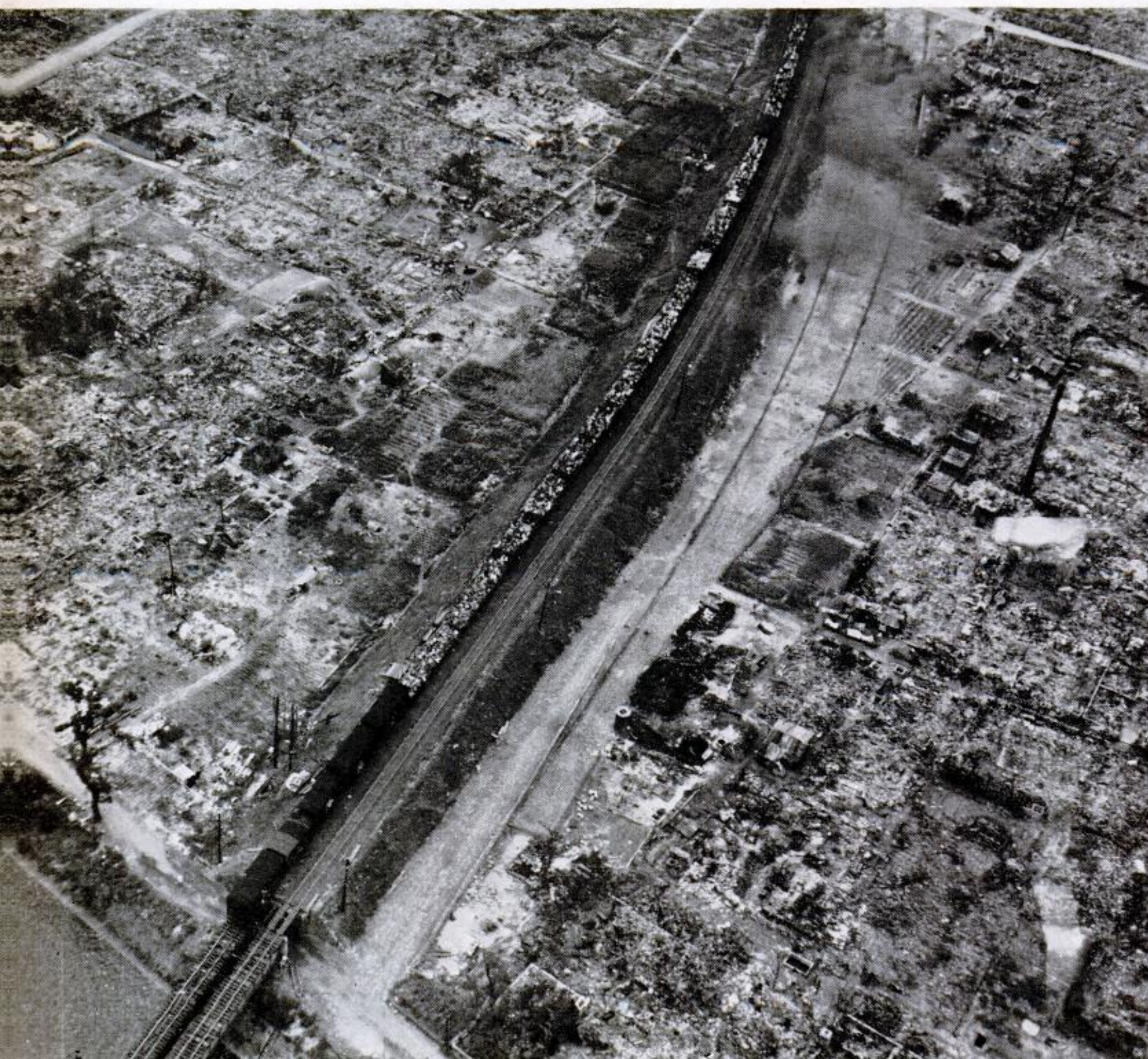


## U.S. OCCUPIES JAPAN CONTINUED



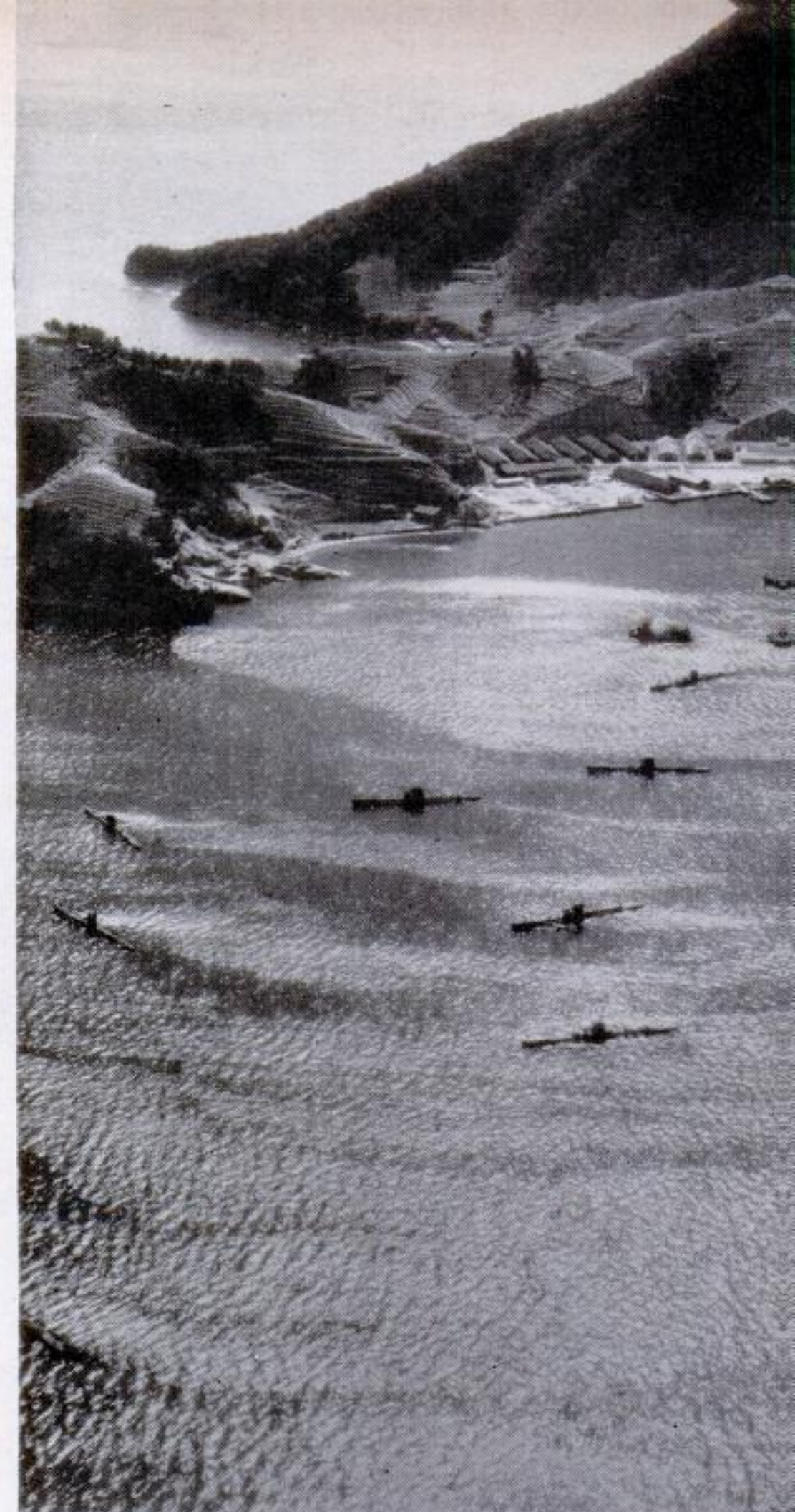
**TOKYO'S BASEBALL PARK** is unscarred. Such parks dot Japan, which has made baseball a national sport. Some

Japanese told American "fellow sportsmen" bombing Tokyo was "uncivilized." Reminded of Manila, they looked pained.



**REFUGEE TRAIN** of open freight cars winds through the waste that was Hiroshima. The subdued Japs ignore plane.

Japan claims that Hiroshima area is still unsafe for human beings because of radioactivity caused by the atomic bomb.



**JAPANESE SUBMARINE FLOTILLA** lies at anchor in a cove near Kure Harbor, ready for surrender. This is about



**TILE-ROOFED HARBOR VILLAGE** on the coast of the Inland Sea entirely escaped bombing, since it contains

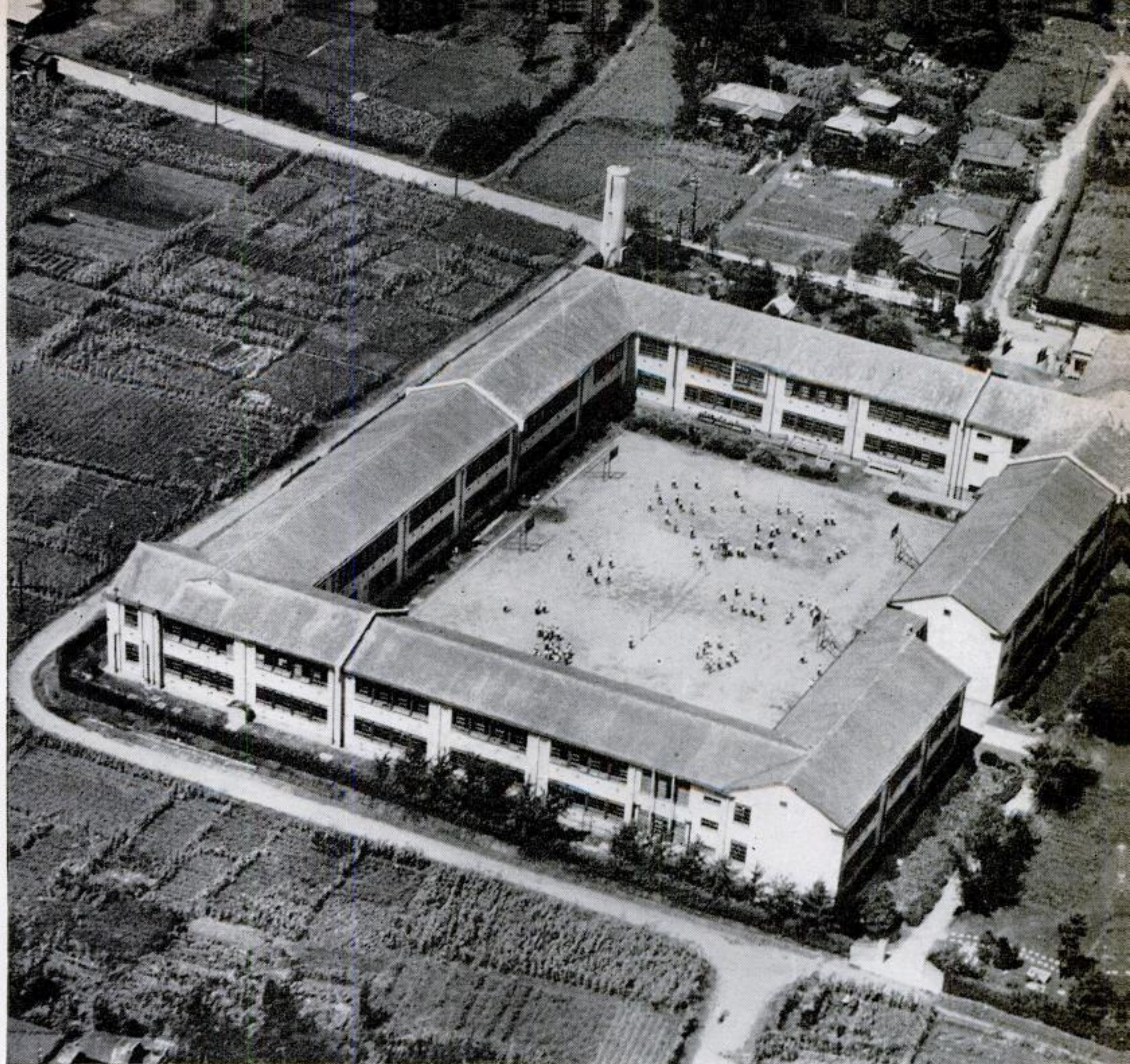




all that is left of the underseas fleet which once numbered 140 subs. Kure, three miles away, is Japan's largest naval base.



no industry. Fishing boats stand offshore. Such peaceful havens furnished Japan with many obediently sadistic soldiers.



**IN JAPANESE SCHOOL** on the outskirts of Tokyo children play basketball in the enclosed courtyard, unmindful of

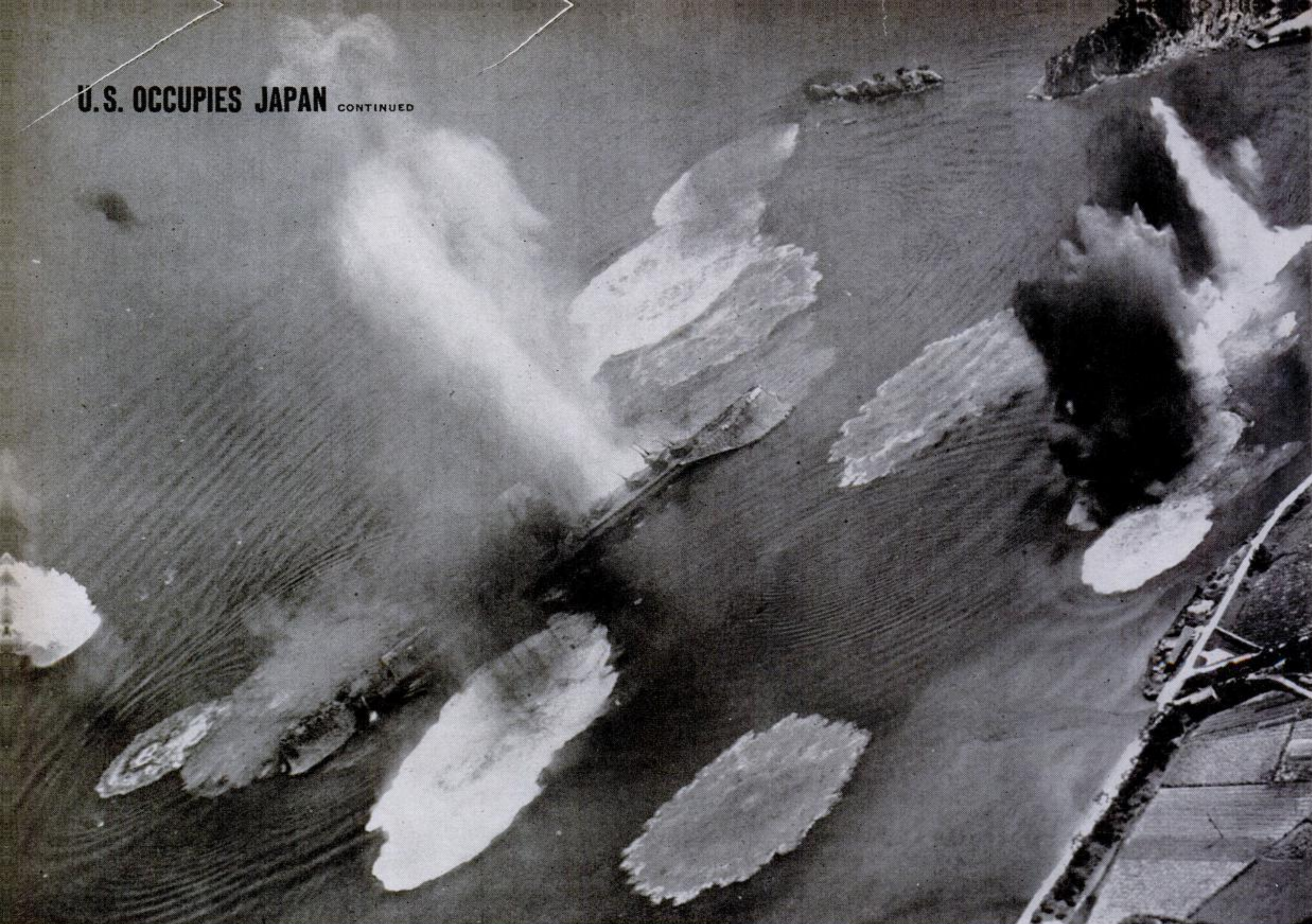
the fact that U.S. marines are landing ten miles away to begin a long and revolutionizing occupation of their country.



**ANOTHER UNDAMAGED VILLAGE**, strung along a highway near Nagasaki and flanked by arable fields (*upper*

*left*), typifies hundreds of Jap towns and cities which U.S. must occupy and control with an estimated 500,000 troops.





IN KURE HARBOR HEAVY CRUISER "TONE," WITH CAMOUFLAGE AT BOW AND STERN TO CONCEAL HER LINES, WALLOWS IN EXPLOSIONS OF BOMBS FROM CARRIER PLANES

# FLEETS END

## JAP NAVY DIED MISERABLY

By the time the Americans landed at Tokyo, the Jap fleet had been literally blown out of the water. The end of Jap seapower came in the last days of July at Kure, Japan's biggest naval base, in the Inland Sea. Hounded from outlying islands, battered in home waters, the remnants of the imperial fleet had crept to Kure for shelter and, huddling there, died miserably under a rain of

bombs from the planes of Admiral William F. Halsey's Third Fleet.

At war's end, one heavily damaged battleship, the *Nagato*, remained of the Japanese navy's 12. Four derelict carriers were afloat of 21. Of 43 cruisers, 4 remained, afloat but abandoned. Still operative were 26 destroyers out of 165 and 16 of Japan's 140 submarines.

CARRIER "AMAGI," HER CAMOUFLAGE TORN AWAY, SMOKES HEAVILY WHILE HOSES PLAY INTO HER TORN DECK. SHE NEVER SAW COMBAT BECAUSE OF LACK OF PLANES







**CONVERTED BATTLESHIP "HYUGA"** settles in spectacular blaze. Built in 1918 as a 32,000-ton battleship, she was converted during war by addition of a staging deck aft (*right*)

to house a small force of catapult planes. With sister ship *Ise* she was a unique but relatively useless hybrid, having neither firepower of a regular battleship nor air strength of a carrier.



# PEACE IN ASIA

## THE MOSCOW TREATIES GIVE CHINA HER FIRST REAL CHANCE TO COMPLETE AN OLD REVOLUTION

Twelve days after Japan gave up, there was announced in Moscow and Chungking an agreement which was as great a victory for common sense as the defeat of Japan was for armed might. The Soong-Stalin treaties contain less ammunition for pessimists than any diplomatic event of the last 20 years. The signatures of two men have done as much to assure peace as all our Flying Fortresses. An extravagant statement? Consider.

### Filling a Vacuum

Long before it happened, the inevitability of Japan's defeat was causing thoughtful people to wonder what would take Japan's place in the Asiatic power balance. For principles and goodwill are not enough to keep the peace in a world of nation-states, which are impelled by an obscure biology of their own. Asia, the home of half the human race, contained only one strong modern nation—Japan. Her attempt to organize and lead Asia proved a bloody fiasco. Must Asia then relapse into the semicolonial subservience which had tempted and corrupted her European masters for more than a hundred years? Since China was a great power by Franklin Roosevelt's courtesy only, pessimists could see nothing in Asia but the same old vacuum and battleground. This time it would be the scene of conflict between these two new superstates, Russia and the U. S.

Affairs in China certainly supported this prognosis. A strong Chinese Communist Party, loyal to Moscow, was aligned against the Nationalist government, backed by the U. S., and both sides talked freely of civil war. That war could have become a disguised war between Russia and the U. S.—a prelude, like Spain. Two weeks ago, intelligent men could not dismiss the possibility of that calamity. Today, they can.

Two strong and subtle men, both revolutionaries since youth, sat down in Moscow and discovered that each needed and wanted a long peace to complete his particular revolution. So they negotiated out every major issue between Russia and China.

China gave up her ancient claim of sovereignty over Outer Mongolia, which has in fact been a Russian satellite since the early '20s. China's right to Manchuria (now occupied by Russian troops), which had been confirmed by the Cairo Declaration, is now also confirmed by Russia, although the Russian-built Manchurian railways are subjected once more to an effort at joint control.

Russia gets special rights in Dairen and a naval base in Port Arthur; this will warrant an extra toast to Stalin by the shade of Peter the Great. Most important, though perhaps least surprising, Russia promises nonintervention in Chinese affairs, thus pulling the rug from under the Chinese Communists and deflating their recently ballooning claims to equality with the government of Chiang Kai-shek.

As soon as the terms were announced, the Communists stopped calling Chiang "the fascist dictator"; he is now "President Chiang" in their press. Their leader, Mao

Tse-tung, who had ignored two invitations to discuss China's future with Chiang, accepted the third, signing himself "your younger brother" in courteous Chinese style. In Chungking Mao and Chiang are now laying the basis for that future. It is extremely bright.

### Vindication of the U. S.

Certainly Americans have cause to call it bright. For the present prospects of China are a vindication of American policy in Asia for almost 50 years.

The territorial and political integrity of China has been a cardinal plank in our Asiatic platform since John Hay's day. We have wavered on it, God knows; there have been plenty of influential Americans who thought Japan, not China, was our real Oriental friend. But the older policy prevailed. And today China, whose territorial and political integrity has been either a mockery or a question mark for a century, is at last within sight of this goal. For the first time China's fate rests in Chinese hands.

To American ears it sounds strange to hear T. V. Soong or Chiang Kai-shek call themselves "revolutionaries." They have been in power so long they seem more like elderly bureaucrats. During the past year especially their regime has been subjected to such a barrage of unfavorable propaganda that many Americans, especially so-called "liberals," think of Chiang only as a bloody tyrant, the Franco of the East. They find it hard to rejoice in the triumph of a "fascist" regime.

Such "liberalism" is short-winded indeed. As Pearl Buck said last summer, "There has never been any real danger of China's going fascist and there is none now." One of the incidental boons of China's victory is that Americans will now begin to rediscover the real nature of the Chinese revolution. They will learn that the Chinese have some strong political ideas and talents all their own.

Last week, when Chiang and Mao Tse-tung began their talks, Chiang opened up with the significant remark, "We can now return to the days of 1924." That was the eve of modern China's second or Great Revolution, a revolution based on close alliance with civilization's other pariah, the Soviet Union. In those days Sun Yat-sen, a close student of Marx, was adapting Marxism to Chinese uses, and young Chiang Kai-shek, his heir, was building a revolutionary Chinese army with the help of Russian mentors. By 1926 the leaders of China knew more about Communism than most leaders of the West know now.

The first upshot of this knowledge was that when the Chinese Communists, up to then members of the Kuomintang coalition, began gesturing for power in 1927, Chiang beat them to the punch and suppressed them with Oriental ferocity. He had known all along that his revolution and theirs, however parallel, were not the same. The break lasted for nine years. At the end of that time Chiang's revolution was so near success that

Japan, in order to forestall it, started the war.

To Chiang the end of the war means one thing above all: that the first of Sun Yat-sen's Three Principles, the first stage of the revolution, is now complete. Nationhood is achieved. To be sure, China has suffered so terribly that the internal consolidation of her new sovereignty—getting a workable currency, reviving ordinary trade, tightening administrative controls—will take time, not to mention foreign (*i. e.* American) aid. But the thing to remember is that the next objectives of the revolution are already laid out. They were laid out long ago by the sainted Sun Yat-sen.

His second and third Principles are democracy and economic well-being. During the war democracy and civil rights in China have suffered badly from the one-party rule of the Kuomintang, a rule euphemistically known as the "period of political tutelage." But Chiang has promised, and every Chinese knows, that that period will come to an end. Chinese politics, gradually reviving, will not divide on the goals of the revolution; they will divide on whether Sun's goals can be reached faster this way or that. In these political struggles the Communists can play a legitimate part, at least until they try another *putsch*. For democracy, land reform, industrialization and other Sun Yat-sen objectives suit the Communists' present book.

### Something New Under the Sun

Peace, lively but genuine peace, is therefore the outlook. But the most fruitful thing about this peace, especially to Americans, may well be the intellectual rediscovery of that old revolution of Sun Yat-sen. It will be almost like something new under the sun; something new, moreover, in the jejune field of political science, which needs it. It is as different from Marxism, the last great new political idea, as day from night.

Sun Yat-sen, although he borrowed heavily from Marx, parted company with Marx on the fundamental nature of man. Sun believed that man is inherently a social being and that his *jên*, or social nature, is far more important in determining how he lives than the question of who owns the means of production. Thus if China tends toward socialism it will be without the gloomy doctrinaire ruthlessness that marked the Russian experiment. The political philosophy of the Chinese revolution is fundamentally sunny, humane and pragmatic, like the Chinese people.

The Chinese people, as their friend Paul Linebarger once put it, "are perhaps the only people in the world with enough finesse about 'face' to save the Communist face." Their political philosophy, to a world weary of materialism, may serve the same turn for Marxists everywhere. It may even break the West of its stale habit of seeing all politics in terms of Left and Right.

In any case, it is one of the great political philosophies—on paper. To watch it move from paper into the living fabric of a great new nation is one of the things that will make the next few decades worth living.





# Good School Day Lunches

make healthier, brighter youngsters

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### THURSDAY

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### FRIDAY

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FINE CASTLES**





THE KING OF BELGIUM'S WIFE, PRINCESS DE RETHY, POSES FOR RARE PICTURE WITH HER 3-YEAR-OLD SON, PRINCE ALEXANDRE EMANUEL, IN AUSTRIAN HOME

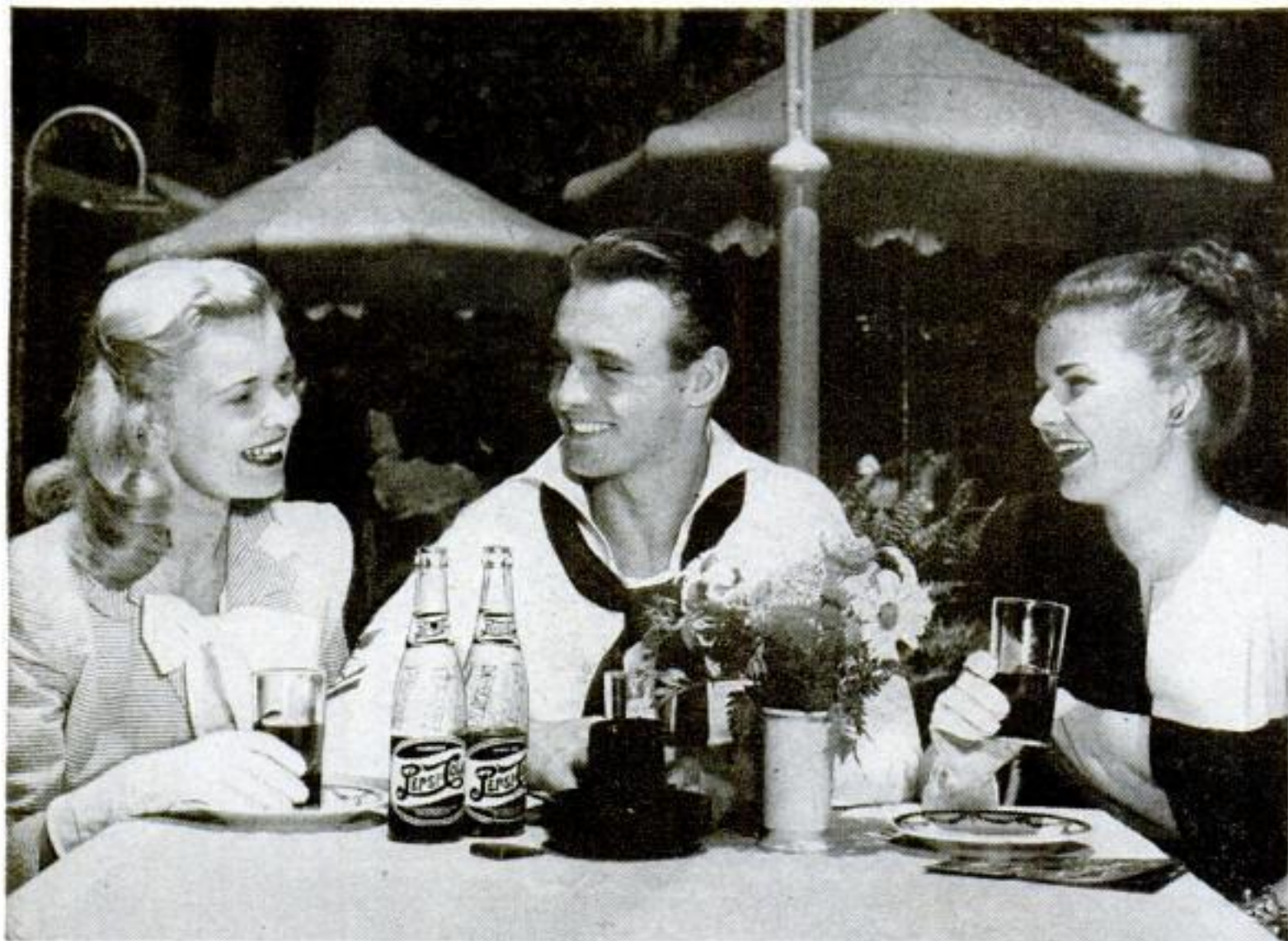
## LEOPOLD'S FAMILY

Belgian King's lovely young wife  
is one reason he may lose throne

The lovely young woman pictured above with her small son is one reason why Belgians do not want King Leopold III back on his throne. She is the Princess de Rethy, née Marie-Lilien Baels, a commoner whom Leopold took for his second wife on Sept. 11, 1941, six years after the death of Belgium's beloved Queen Astrid. Already distrusted by many Belgians for apparently friendly relations with the Germans, Leopold further shocked them by marrying a woman below his station during a time of national suffering.

Leopold and his wife are now living in a villa in St. Wolfgang, Austria, where he had been interned by the Germans. Although all royal rights have been specifically renounced for the 33-year-old princess and her offspring, it is doubtful now if she will ever return to Belgium to enjoy the position of a king's wife. Leopold, who is 44, is now seeking asylum in Switzerland until results of the Belgian elections finally determine the fate of his throne. But those who know his beautiful wife say she is "worth giving up a kingdom for."





**Chatham Walk**—In days like these New Yorkers take to fresh air, good company and Pepsi-Cola. Peggy Field, Pat Hughes and escort are enjoying them all at this popular outdoor meeting place of the Chatham Hotel.



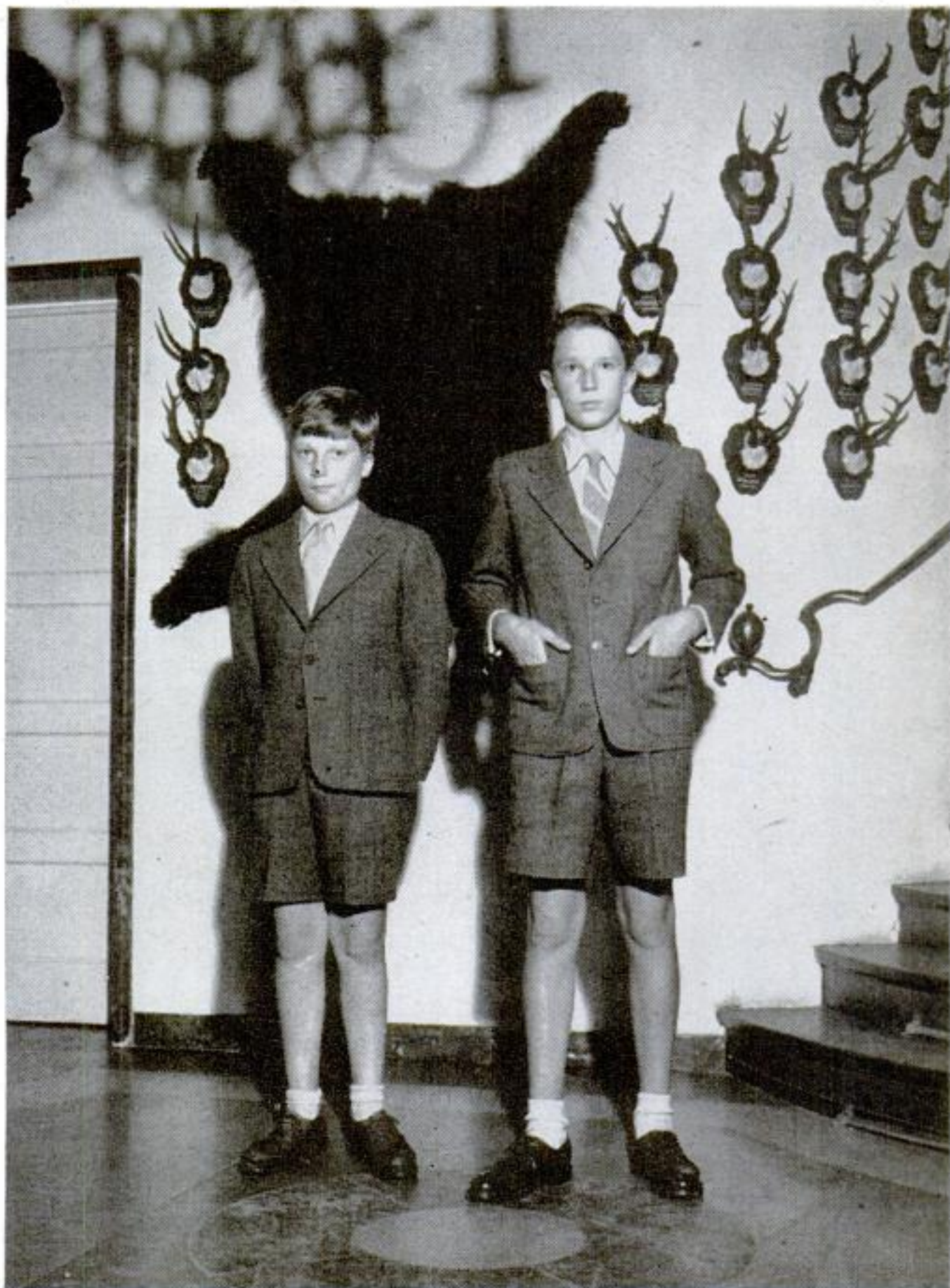
**At the Brevoort**—Leading an outdoor life at the traditional sidewalk cafe of the Brevoort Hotel in New York City, Joanne Jaap, Vicki Maulsby and escort discover that there are pleasant ways to beat the heat.



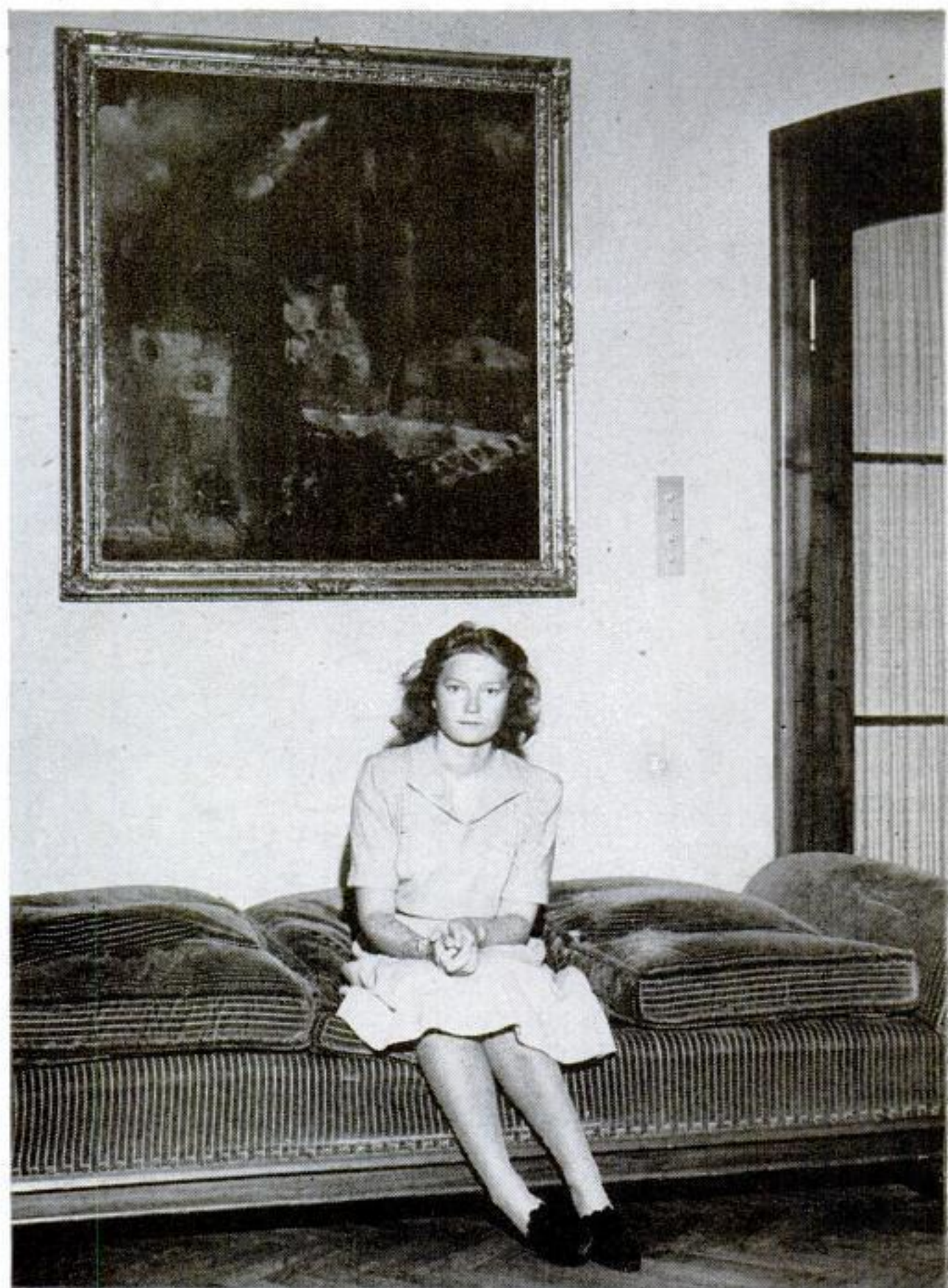
*Photos by Larry Gordon*

**Tavern on the Green**—In the heart of Central Park, Evelyn McBride, Nancy Lee and escort keep cool the easy way—outdoors with ice-cold Pepsi-Cola. It's a good old New York custom that's good all over America.

## Leopold's Family CONTINUED



The late Queen Astrid's sons are Prince Albert, 11, and Prince Bauduin, 16, heir to throne. Their stepmother was lady in waiting to the royal children before she married king, whom she met on a golf course in 1939. He made her a princess in 1941.



Princess Josephine Charlotte, 18, is Leopold's oldest child. Her mother was killed in auto accident. King's new wife is a devoted stepmother. Her father, a wealthy lawyer and industrialist, and her brother are suspected of pro-German sympathies.

CONTINUED ON PAGE 48





**Cornhusker!** All day today, Bob's husked corn to feed the stock with, come winter—and to help relieve food shortages everywhere.

Now, he's drifting off in the soft, gloriously cushioned luxury of a Beautyrest mattress—made by Simmons. Those wonderful 837 individually pocketed coils see to it that you relax gloriously! If *you* own a Beautyrest, take care of it. For materials are still tight. If you *need* a new mattress buy one of the other

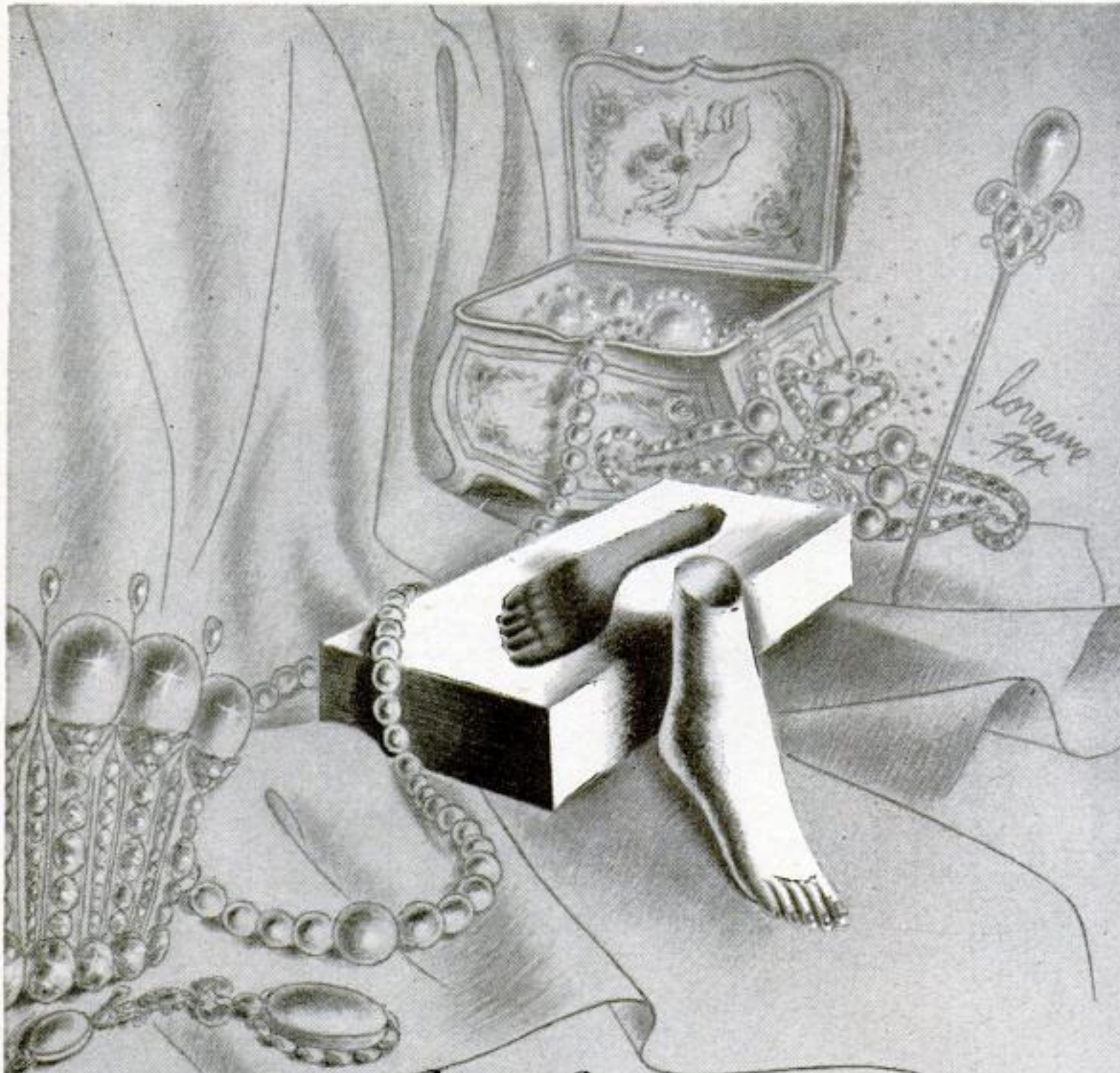
Simmons mattresses your dealer may have. Any mattress bearing the Simmons label gives you fine sleeping comfort.

**P. S.** Also available, a limited number of Beautyrest Box Springs at \$39.50 each.

**BEAUTYREST**—The World's Most Comfortable Mattress!

Made by **SIMMONS COMPANY**



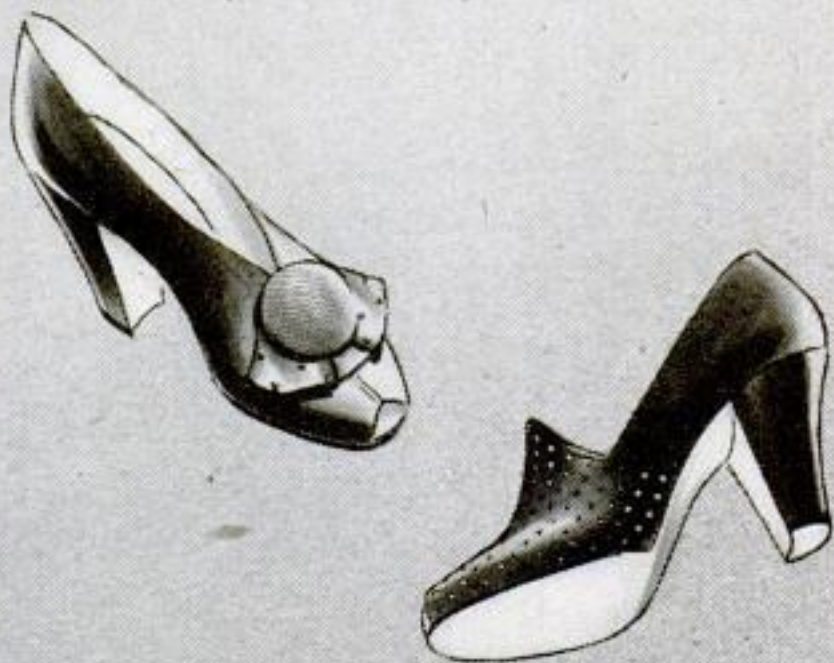


## worth a fortune... to your feet

It's a fabulous idea . . . more prized by charming women than heirloom rubies and pearls. Shoes with "Your Footprint in Leather"\* moulded inside for you to walk on! Imagine . . . a curve-for-curve copy of the bottom of the foot, in soft, supple leather to cushion every sensitive nerve, cup every tender curve and cuddle up into the hollows. Instantly you walk relaxed and free. You take your mind off your feet and concentrate on being the woman you were meant to be. Matrix\* and only Matrix lays this fortune right at your feet, for only Matrix in all the world makes shoes with "Your Footprint in Leather."

## MATRIX SHOES

with "Your Footprint in Leather"



*Most Matrix Styles \$9.95 to \$12.95. E. P. Reed & Company, Rochester 3, N. Y. Matrix Style Studio, 47 West 34th St., New York 1, N. Y. \*Reg. U.S. Pat. Off. E. P. Reed & Co.*



**Leopold III** was liberated by U.S. troops last May. He planned to return to Belgium but serious opposition developed there. Pro-Leopold members of the cabinet resigned. Leopold refused to abdicate his throne but finally agreed not to try to return to Belgium until a popular election demanded it. The government then passed a law forbidding his return. His younger brother, Charles, is now acting as regent.





# Jeanette MacDonald

the loveliest of all "Mariettas" brings you  
Victor Herbert's joyous ITALIAN STREET SONG

For a few breathless moments in "Naughty Marietta" you heard Jeanette MacDonald singing the *Italian Street Song*... then it was just a shining memory.

Now—bring back the voice, the song, the memory! They are yours on an RCA Victor Record. Again you will hear Jeanette MacDonald's golden voice—recorded with "in-person" realism—the voice beloved by opera, concert and screen audiences. Fresh and radiant as April sunshine—never has it been more entrancing than in this lilting Herbert melody.

The reverse side of the record brings you another of Miss MacDonald's most captivating performances... her delightfully romantic interpretation of Herbert's *Summer Serenade*.

Radio Corporation of America, RCA Victor Division, Camden, N. J.



Look for this attractive display now at your RCA Victor dealer's. RCA Victor Record 10-1134, 75¢.

Buy More War Bonds

Listen to The RCA Show Sundays at 4:30 p.m., EWT, over NBC.



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GREAT NEW  
RCA VICTOR  
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cellist, plays Beethoven's *Sonatine*  
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on Record 11-8815, \$1.00



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conducts the Cincinnati Symphony  
Orchestra in *Der Rosenkavalier, Suite*  
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THE WORLD'S GREATEST ARTISTS ARE ON



RCA VICTOR RED SEAL RECORDS







*"My grandparents  
were lots of fun..."*

**SAYS KATE SMITH**

"I have so many childhood memories of my wonderful grandparents and their little private jokes... like the vanilla bottle.

"Quite often Grandma would find it in the middle of the kitchen table. She knew what that meant.

"And that night, Grandpa, eating her luscious vanilla pudding, would say, 'What a surprise! My favorite dessert!' Then we'd all laugh... especially me.

"Too bad there weren't any quick-and-easy Jell-O Puddings in those days. In just 5 minutes Grandpa could have cooked himself a Jell-O Vanilla Pudding that would match Grandma's!

"For Jell-O Vanilla Pudding has the same creamy smoothness, the same glorious taste as the pudding it took Grandma so long to make!

"There are two other grand Jell-O Puddings, you know. Chocolate, with its deep, rich flavor straight from the famous Walter Baker Folks... and luscious Butterscotch. No wonder these nourishing puddings are America's best sellers!

"Because the makers of Jell-O Puddings are rationed on sugar just like you, your grocer's supply isn't always plentiful. So buy only your fair share, and take whichever flavors your grocer has for you."

**Jell-O  
Puddings**

Products of General Foods—  
made by the makers of Jell-O



**New Orleans Tarts.** Dip pecans in melted butter and roll in brown sugar and cinnamon. Add to Jell-O Butterscotch Pudding. Turn into tart shells. Garnish with cherries.

**Chocolate Charlotte.** Line sherbet glasses with pieces of sponge or plain cake and fill with Jell-O Chocolate Pudding.

**Orange Cream.** Just add an orange! Remove sections. Add leftover juice and  $\frac{3}{4}$  teaspoon grated rind to cooked Jell-O Vanilla Pudding. Arrange halved orange sections on top.

*"Like Grandma's—only more so"*





A GI USES SIGN LANGUAGE TO TELL A RUSSIAN THE NUMBER OF JEWELS IN HIS WATCH. AFTER HAGGLING THE RUSSIAN BOUGHT THE WATCH FOR A FAT PRICE

# BLACK MARKETS BOOM IN BERLIN

Red Army men are biggest buyers

The biggest, most open and most international black market in Europe is located in the famous wooded Tiergarten in the center of Berlin. Here crowds of soldiers and civilians gather daily for trade, both legal and illegal. Germans, who traipse hopefully to the Tiergarten with their household goods in prams and rucksacks, want food, cigarets and foreign currency. Red Army men, who lug along suitcases of bills representing their back pay for several years, want cameras, clothing, and especially watches. The Americans, British and French, who drive up with pockets bulging with salable gadgets, want money.

Hard up for any consumers' goods, the Russians are eager, wealthy, gullible and therefore the best customers. Until recently, when black-market prices began to decline and authorities began to prosecute Allied troops caught selling army stores, the Americans were coining fantastic profits. A carton of cigarets or a pound of coffee brought \$100, a small bar of soap or chocolate, \$5, and a K ration, \$20. But watches, which went for as much as \$1,000, were the best legal tender in Berlin. Mickey Mouse watches, originally \$3.95, were being bought by wide-eyed Russians for \$500 apiece. After selling a cheap watch to a Russian one GI remarked, "I'll buy a car with the dough back in the States." But when trade flourished to the point where some enterprising GIs sent home for boxes of watches, the Army had to clamp down.



Berlin's black market is centered in the once fashionable Tiergarten. Most transactions are made under the trees just

off the boulevard so that in event of a raid the dealers can make a quick get-away with their goods into the woods.



# VITAMINS:

## Deficiencies seldom single

Important to all is the now established fact that vitamin deficiencies seldom occur singly: lack of one vitamin in the diet nearly always means lack of several.

Nor is this deficiency confined to vitamins. Prevalent, too, is the inadequacy in the diet of certain minerals.

Therefore, increasing the intake of any one vitamin or mineral cannot materially benefit those whose diets are inadequate in others.

Thus, much to be preferred is the diet-supplement formula that contains all the vitamins known to be needed in the human diet, and at the same time contains essential minerals, too.

### Millions Deficient

These facts become especially significant in the light of the reported widespread vitamin-mineral deficiency of the average American meal.



**VITAMIN RESEARCH**

*Lack of one usually means lack of several.*

An exhaustive survey of national eating habits released by the United States Department of Agriculture disclosed that millions of American families were not getting sufficient vitamins and minerals from their meals. These findings have been confirmed by other surveys.

Causes are varied, easily understood: few people are dietitians enough to select foods that give them all they should have; most tend to choose foods by taste, not food value.

Even with foods naturally rich in vitamins, marked losses occur from exposure to the sun and heat; from transportation; from storage; from cooking.

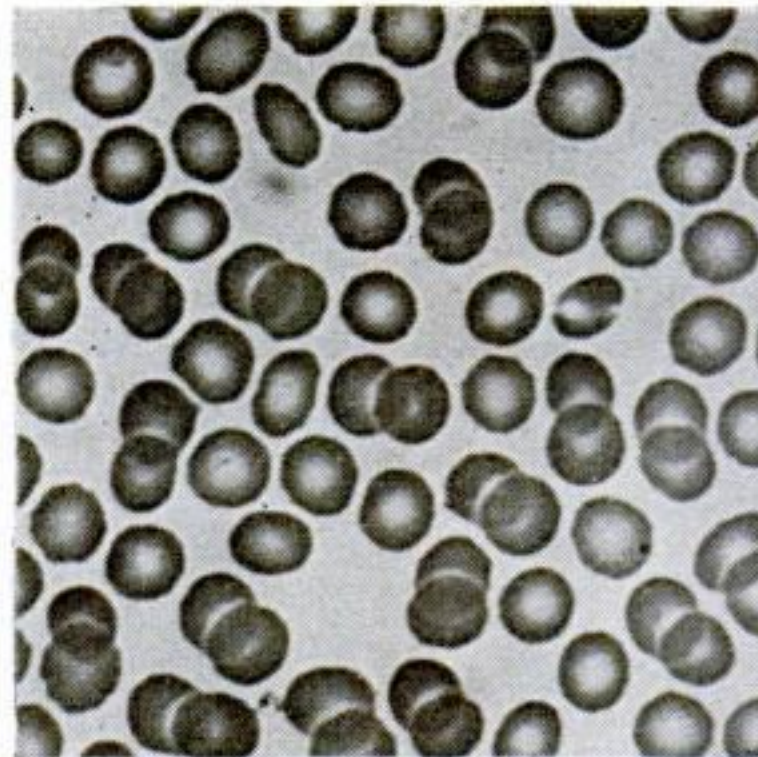
### Minerals as important as vitamins

Vitamins alone, even in sufficient amounts, are not enough. Equally impor-

tant is to get minerals, too—the minerals which help certain vitamins function most efficiently.

Important among essential yet commonly lacking minerals is Iron. This mineral is essential to the body's production of hemoglobin, that gives blood its natural red color; thus, Iron plays an important part in the maintenance of the energy processes of the body.

Also found needed were Calcium and



**RED BLOOD CELLS**  
*Hemoglobin requires Iron.*

Phosphorus, utilized by the body, in conjunction with Vitamin D, for strong bones, teeth and tissues.

### Of the 7 leading brands, only Vimms has both

Vimms were specially developed to help correct such prevalent vitamin-mineral dietary deficiencies. Vimms give you *all* the vitamins that Government experts and doctors recognize are essential in the diet; also *all* the most commonly



**THREE VIMMS DAILY AT BREAKFAST**  
*... bring average diet up to par.*

lacking minerals: Iron, Calcium and Phosphorus.

The Food and Nutrition Board of the National Research Council has adopted Recommended Daily Allowances for vitamins and minerals.

Three Vimms daily will raise the average diet of children and adults up to or above these Recommended Daily Allowances.

# VIMMS

## Berlin Black Market CONTINUED



German policemen in Tiergarten tell civilians and soldiers to move along, calling attention to sign on tree which warns against sale or barter of Allied army goods.




Well-dressed couple sit on log in Tiergarten waiting to exchange some of their personal belongings for cash or goods. The woman is taking off a neck chain to offer.



New-looking shoe offered by a German woman is inspected by a Russian private. The Germans also sell jewelry, table lamps, family heirlooms and attic bric-a-brac.

CONTINUED ON PAGE 54





How about a job in 1967?

*Why a job in 1967?*

Simply because the young man has been taking a look at statistics and has decided he can get ahead faster if he has a college education. He figures he'll be ready to be a lot of help to some good organization by 1967.

Pretty confident about his education?

Of course.

He and his Dad had a talk about it. Then Dad called in his John Hancock agent who worked out a plan. That plan is the secret of the young man's confidence. It guarantees his education.

As for Dad, he expects to live to be eighty. But he too has looked at statistics. So he's taking no chances. If the young man never has to use the life insurance,

Dad will have saved some money anyway—systematically.

This educational plan is only one of the many practical plans which have come out of the eighty years of experience of the John Hancock Company in fitting life insurance to the needs of many policyholders. Your John Hancock agent will be glad to help you to decide which one is best suited to your needs.

*John Hancock*  
MUTUAL  
LIFE INSURANCE COMPANY  
OF BOSTON, MASSACHUSETTS

GUY W. COX  
Chairman of the Board

PAUL F. CLARK  
President



# Hold on!



*Blackie:* "How thoughtless of somebody to throw this rubber ball into the basket, Whitey."

*Whitey:* "It must have been a mistake, Blackie—because nobody wants to waste anything these days."

True words, Whitey—especially where BLACK & WHITE is concerned. There isn't too much of it to go around these days, but every drop is precious. So please drink it sparingly until there is a more plentiful supply to go around. (Soon, we hope.)



## "BLACK & WHITE"

*The Scotch with Character*

BLENDED SCOTCH WHISKY • 86.8 PROOF

THE FLEISCHMANN DISTILLING CORPORATION, NEW YORK, N. Y. • SOLE DISTRIBUTORS

### Berlin Black Market CONTINUED



Russian officer leans down surreptitiously from back of a Red Army truck passing through the Tiergarten to bargain with a woman for a bottle of German wine.



Cheap accordion is tried out by a Russian soldier before purchase. Russian girl soldiers try on secondhand dresses in the Tiergarten to make sure of fit before buying.



Bloody-nosed civilian is led away from black market by two policemen and a plainclothesman after a raid. He was arrested for carrying a gun and not showing papers.





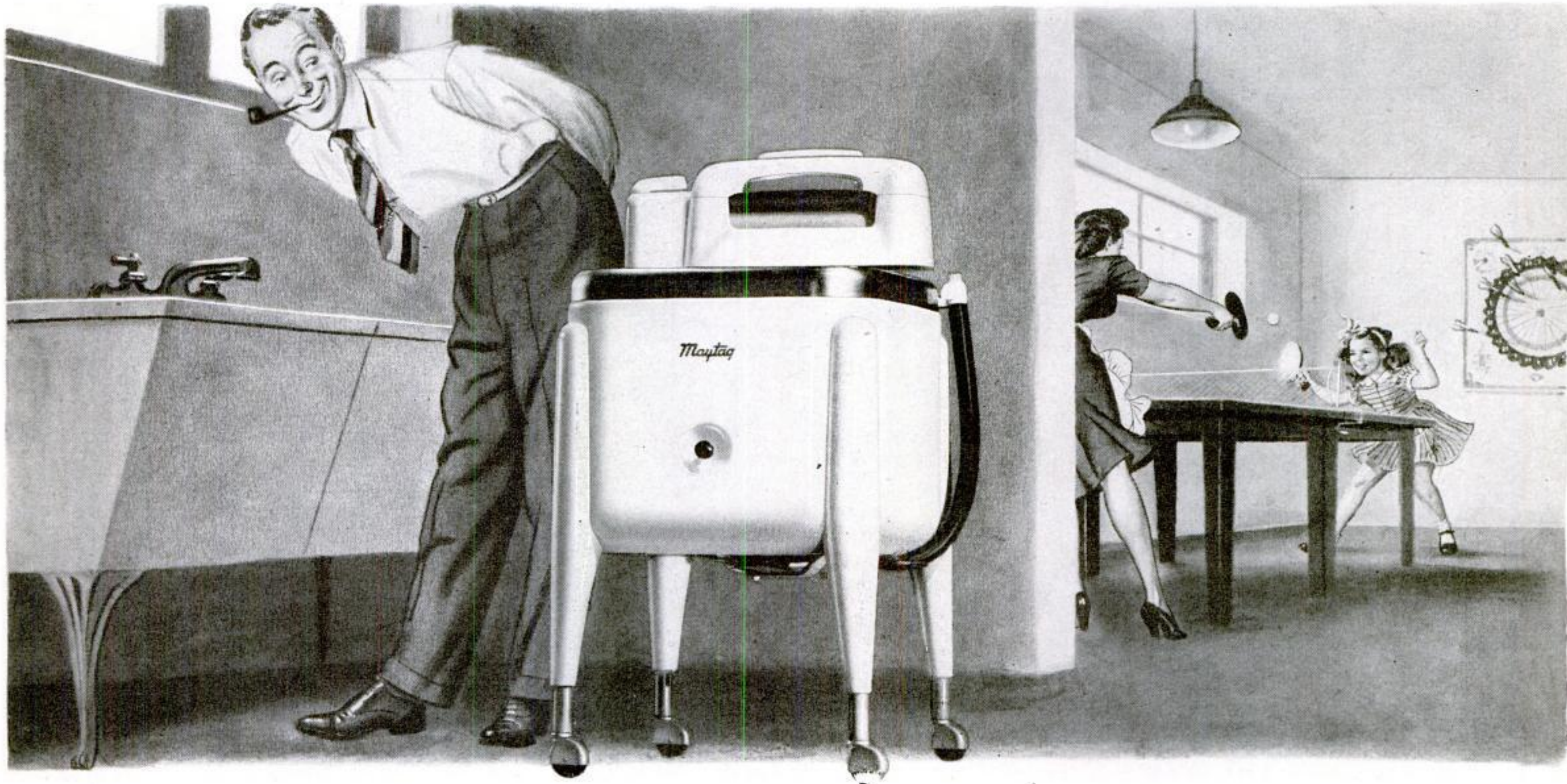
## “Lady, you’ve been wishing for a washer . . .”

Women everywhere need new washers, and their preference for MAYTAG tops preference for any other washer—*by better than 7 to 1*, according to recent, impartial surveys.\*

We know you need a washer. We wish you could have one today. But we have to ask you to be patient a *little* longer.

Uncle Sam has said, “go ahead.” And the day is not far off when we’ll be ready to make new Maytags again for you, and for all the other women struggling along with old-fashioned laundry equipment.

You’ll be thrilled at the handsome, new “Post-War” Maytags we’ve planned for you . . . the finest we’ve ever built . . . sturdy and dependable, for economical, trouble-free operation; for easier, quicker, more efficient washing . . . and presenting many important, new post-war improvements.



Look for these advantages in the handsome New Maytag “Post-War” Models . . .

- **GYRAFOAM WASHING ACTION** gives quick, thorough, fabric-saving washing.
- **SEDIMENT TRAP** captures dirt from water during washing; eliminates frequent water changes.
- **BIG SQUARE TUB** holds more clothes; has double walls to keep water hot.
- **DAMP-DRIER** gently presses water from filmy silks or thick blankets without adjustment; protects snaps, buttons, zippers; leaves no hard-to-iron wrinkles.

### Plus Many Important Improvements

All these and many exclusive features, together with new quality, efficiency, ruggedness, tell the story of Maytag’s leadership. No wonder Maytag is the 7 to 1 favorite of housewives who are looking ahead. Right now you can depend on your Maytag dealer to keep your present Maytag operating efficiently. He has genuine Maytag parts if needed. If you do not know his name, write us at Newton, Iowa.

**THE NEW MAYTAG MASTER**, the finest washer in the entire Maytag line, is unsurpassed for dependable service, for efficient and economical operation.

### Other Popular Maytag Models

**THE NEW MAYTAG COMMANDER** is a stand-out in the medium-priced field. All the hidden, built-in quality means top performance now, continued fine service for years to come.

**THE NEW MAYTAG CHIEFTAIN** features, right down to the smallest part, skilled workmanship and finest materials. This is the leader in the low-priced field.

\*Independent surveys of more than 36,000 homemakers in large cities and small, made in 1944 by a large newspaper and widely-read weekly publication.



**WASHER-IRONER**







**a peacetime**



**course...** Soon the pulse of peace-time traffic will throb over the airplanes and sea ways of a free world. • Nation will talk to nation in the universal language of the Arts. Good design will flourish again...and be respected anew. • And off to world-wide conquest strides the Stafford Stallion...symbol of those brilliant fabrics that are woven in Pennsylvania and printed in the little Connecticut town for which Stafford Fabrics are named...Stafford Fabrics...fabrics with a pedigree.

**GOODMAN & THEISE, INC.,** 16 East 34th St., New York 16, N. Y.,

Stafford Springs, Conn., Scranton, Pa.





OVERHEAD VIEW OF TEXAS HOUSE SHOWS COUPLE LEAVING THE LIVING ROOM BY FRONT DOOR. RIGHT WING CONTAINS BEDROOM; LEFT WING, KITCHEN AND BATH

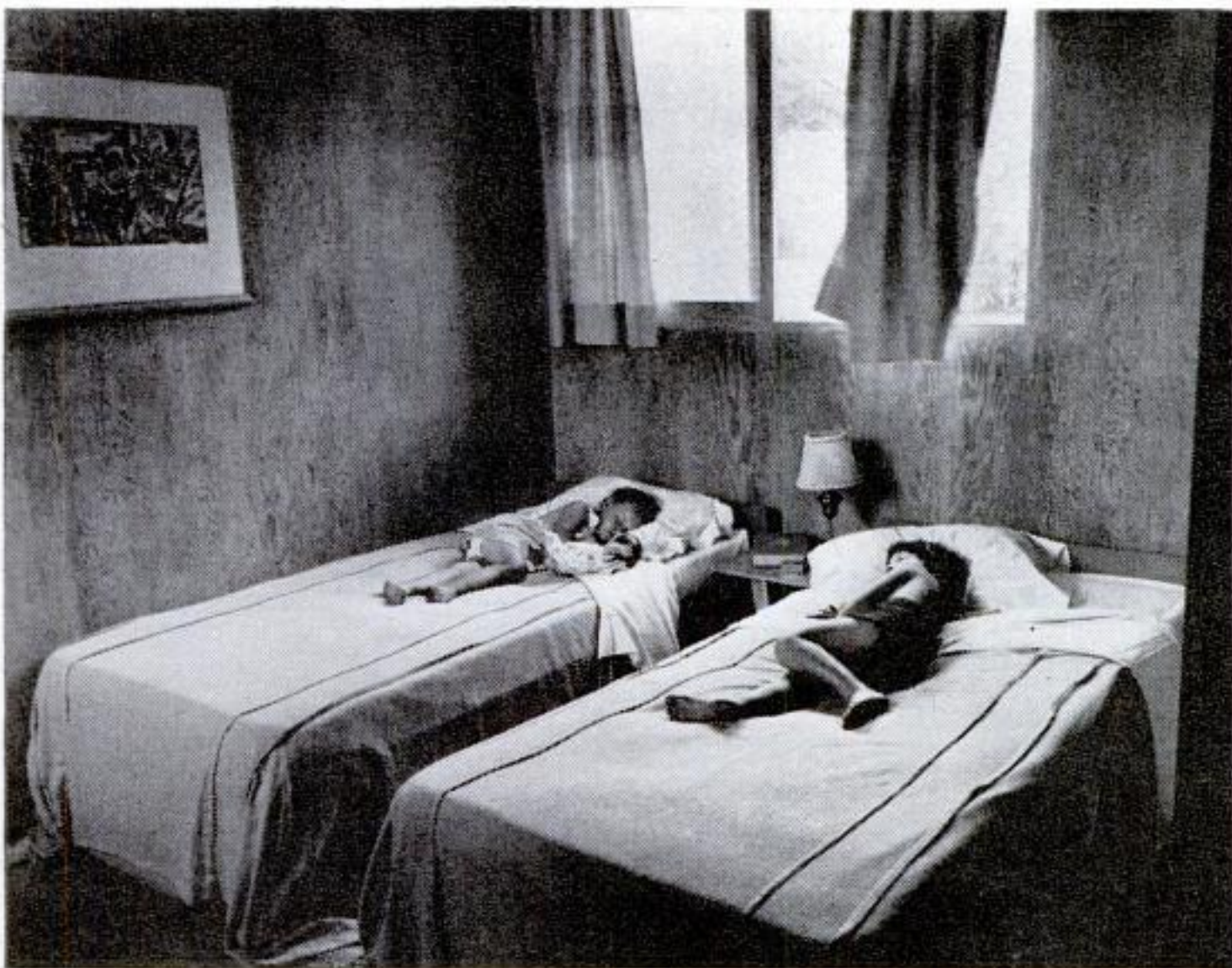
## HOUSE FOR TEXAS

Cheap to build, it is especially adapted to state's hot climate

The odd-shaped structure above is a house designed for a specific part of the U. S.—the state of Texas. As such it is an innovation in American architecture, which has spread Cape Cod cottages and California bungalows from coast to coast regardless of differences in climate and the needs of the residents.

Built cooperatively by the Texas State College for Women and Texas A & M, the house was designed for an average Texas family of four members. Research discovered that the average family had an annual pre-

war income of about \$1,500. This pegged the total cost of the house, not including land or furniture, at \$2,000. To minimize Texas heat the house was built in the shape shown above, which provides every room with maximum cross ventilation, and was placed on the plot in such a way as to get the fullest benefit of the prevailing southeast wind. The roof, light-colored to reflect heat, overhangs the house enough to keep out the almost vertical rays of the summer sun but to let in the slanting rays for warmth in the winter.



**Bedroom is for children** who must go to bed early. Parents sleep in living room, converting couch into bed. Summer breeze blows right through the house, whips curtain over children.



**Big kitchen** has plenty of shelves and cupboards. Note the living room through the archway. House has been occupied and tested by several people who report that it works very well.



# IT'S \*ARALAC!

Emily Wilkens designs exclusively for the teen-age crowd . . . and here's her newest: lounging pajamas of Twilltour, a Mallinson fabric of rayon and ARALAC.



House for Texas CONTINUED

## HOUSES SHOULD VARY WITH REGIONS

U.S. architects have more and more recognized the need for building houses which, like the Texas house shown on the previous page, are designed for a specific one of the country's many climates. At the Princeton School of Architecture, David Anderson of Lawrenceville, N.J. built three models to demonstrate how a house should be modified for different parts of the U.S.



FLORIDA

**Spread out** in a long row, all rooms of this Florida house open wide to trade winds. House is built on columns for maximum ventilation, leaving shady space beneath.



NEW JERSEY

**More compact** than Florida house, New Jersey house built of native rock and wood has smaller window area, is easy to heat. Greenhouse makes cheerful alcove in winter.



MAINE

**For extreme winters** Maine house is most compact. It is heavily insulated and has basement. All three houses enclose same amount of space, would cost \$20,000 apiece.





**MODERN!**  
**"Sub-Tint"**  
 Cream-Powder Make-up

WHAT IS SO MODERN AND NEW ABOUT IT?

First, the dramatic difference it makes in your complexion—without a hint of that unnatural mask-like appearance

Second, the smooth, clear, flawless look it gives your skin—the way it keeps your make-up perfect all day long.

"Sub-Tint" goes on lightly and evenly, hiding tiny complexion faults. It is creamy, not greasy—and it does not pull or dry your skin. Once tried, you'll never be without it, for the miracle of "Sub-Tint" Cream-Powder Make-up will surprise even you with your own loveliness.



Light  
 Medium  
 Dark

*Coty*





## Add a Charm ? ADD A DOZEN ....

**E**XCITING as it is to research scientists when they hit the jackpot—discovering how to make a scarce material *abundant*—in the end it can be more exciting to you...

*Allyl chloride* and *allyl alcohol* represent a new field of chemicals, of bewildering complexity and endless possibilities. They are here now—produced by Shell Research from an abundant petroleum material.

They provide “chemical building blocks”—*now what will you have?*

Perhaps a new refrigerator or kitchen range whose allyl enamel won't chip or crack when you drop a kettle?

A lovely table top, built up of allyl resins and paper, which can't be burned by cigarettes or discolored by liquids?

Perhaps a colorful mar-proof, washable wall covering? Or a boat that never needs paint—with no

screws or nails to rust—no wood to rot—nothing that a borer can sink his teeth in?

These are only a few of possible new “charms” of everyday life—coming from manufacturers who, even now, are well advanced in the use of allyl building blocks to produce more livable homes and better equipment.

Allyl resins and plastics are *thermo-setting*, hardening into permanent form as they are molded on inexpensive dies... under very little pressure.

And the making of better furnishings, finishes, and equipment is only one direction in which the allyl products may go. Another, the making of superior anesthetics and sedatives, is already a mature science which has demonstrated its great usefulness during the war.

Information about allyl chloride and allyl alcohol can be obtained from Shell Chemical, 100 Bush Street, San Francisco 6, California.

Look to Shell Research for finer motor fuels and lubricants... Shell's wartime leadership in petroleum research and technology is your assurance of finer fuels and lubricants for your car. When the time comes, your Shell dealer will be ready.



*Horizons widen  
through  
Shell Research*

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Incorporated

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# Sylvia Sidney

AN OIL PAINTING

by FLETCHER MARTIN

When Actress Sylvia Sidney made her comeback with James Cagney in *Blood on the Sun* after a four years' absence from the movies (LIFE, June 18), moviedom was suddenly shaken by the realization that it had been overlooking a screen personality of first magnitude. The temperament and extraordinary semi-Oriental beauty caught here by Artist Fletcher Martin immediately established the erstwhile player of weebegone waifs as an actress of glamour and sophistication. It was about time. Miss Sidney is not only beautiful, she has a record of dramatic achievement and of devotion to her craft that can be matched by few of Hollywood's most famous stars.

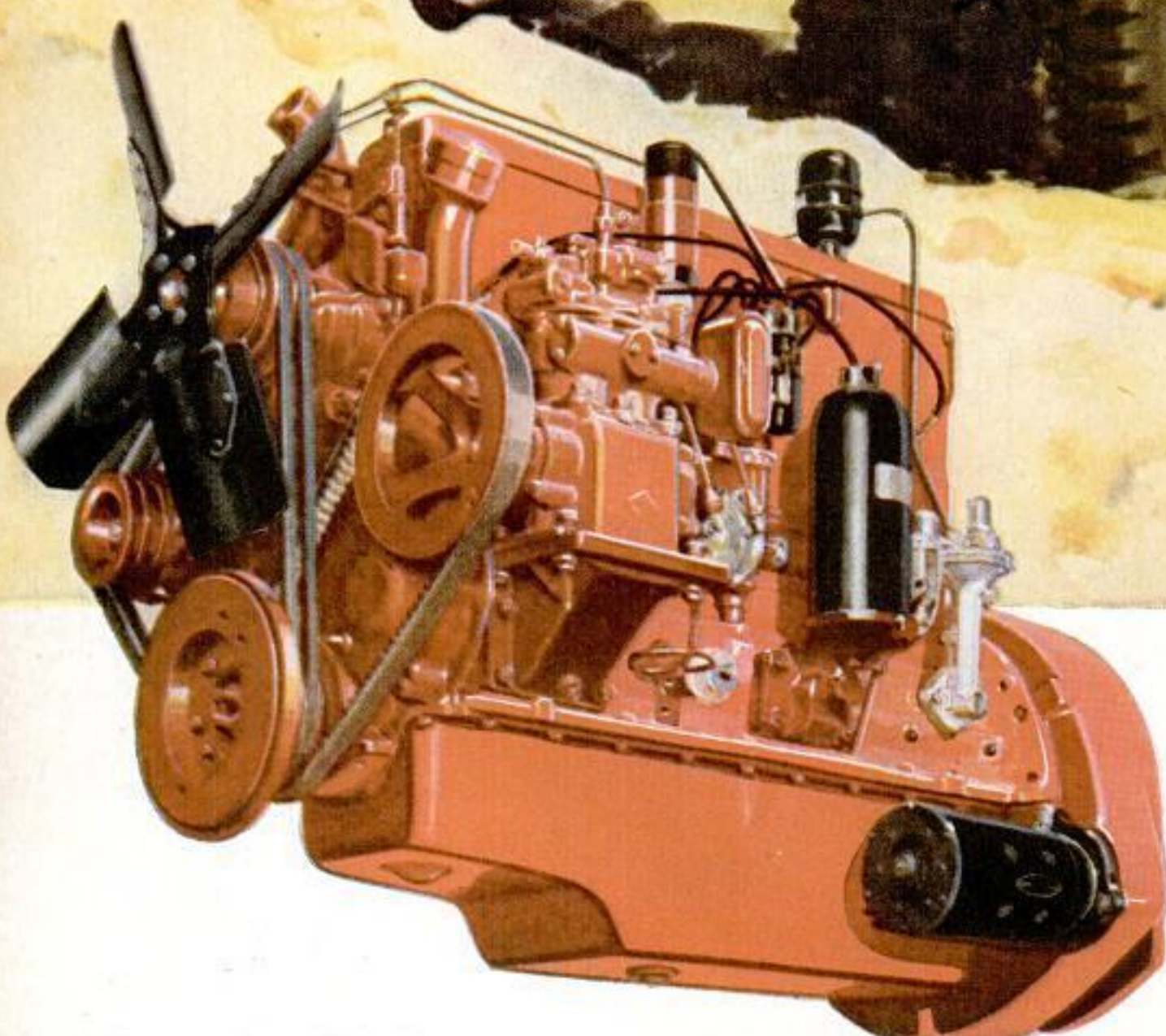
Born in New York in 1910 of Russian parents, Sylvia Sidney firmly decided at the age of 11 that she would devote her life to the stage. At 15 she left high school to enter the New York Theatre Guild School from which she was promptly expelled for staying out late nights. In a sizzling rage (she still has one of the most fiery tempers in Hollywood) she hounded the offices of Broadway managers in an effort to prove that the Guild had made a mistake. After a series of secondary roles, she was cast in Maxwell Anderson's *The Gods of the Lightning* where, in a courtroom scene, she emitted a blood-curdling scream that became a minor Broadway sensation. The scream so impressed Fox Films that they brought her to Hollywood to do it again in her first movie, *Through Different Eyes*. Characterized by critics as a miniature Katharine Cornell, Miss Sidney went on to a chain of Broadway and Hollywood triumphs as a young dramatic actress. But her rather earthy looks and gaminlike personality kept her typed in roles depicting wayward girls, tearful urban strays and tough Dead End moppets.

Sylvia Sidney still retains the serious dramatic ambition and fierce independence that brought her up from the Broadway pavements. Her friends refer to her jokingly as "the female Cagney." As she explains it, "You just can't be sweetness and sunshine all the time." She avoids Hollywood social life, prefers to live in New York where she claims even to love the roar of the elevated trains. Her likes and dislikes are violent and precise. She loves liverwurst sandwiches, flying, first editions and phonograph records; hates bridge, nightclubs, jewelry, beauty parlors and all forms of physical exercise. To intimate friends she is known by the nicknames Slivick, Funny Face, Monkey, Goofy and Brat. She retaliates by rising at 6:30 every morning and rousing her friends out of bed with early telephone calls.

Artist Fletcher Martin took three weeks to paint the portrait at right, picked the sultry midnight blue gown because he thought it helped to set off the character of restrained tempestuousness he was trying to catch.







# OUT OF THIS WAR

THIS BATTLEFIELD doesn't look much like a Pennsylvania truck terminal or a 4-lane highway. But out of mechanized war have come ideas that will benefit transportation, construction and agriculture the world over.

The rugged requirements of warfare on every battlefield have inspired the engineering genius of American industry. Out of this war came, for example, the new *International Red Diamond Engine*.

Tens of thousands of International Military Trucks and Half-Tracks—powered by this new International Red Diamond Engine—have set new transportation and combat records in wartime service.

Many of these mighty Red Diamond Engines have already gone into International Heavy-Duty Trucks for essential civilian use. The men who operate them will vouch for the stamina and economy of adequate power for any job.

The International Red Diamond Engine is *one* of the wartime developments International Harvester will pass on to the transportation industry.

When peace comes and new trucks roll out on America's highways, look to International for even greater economy, even greater dependability. And remember—for ten years before the war *more heavy-duty Internationals were sold than any other make*. Backed then, as now, by the *world's largest company-owned truck service organization*.

**INTERNATIONAL HARVESTER COMPANY**  
180 North Michigan Avenue Chicago 1, Illinois

**NEW TRUCKS:** The government has authorized the manufacture of a limited quantity of light, medium and heavy-duty International Trucks for essential civilian hauling.

**SERVICE:** Many operators will have to wait for trucks. Maintenance of existing vehicles is just as important today as before V-E Day. Therefore—be sure your trucks get top maintenance and service at International Truck Dealers and Branches.



Buy More War Bonds and Keep Them



# INTERNATIONAL Trucks

**International Red Diamond Engine.** Heavy-duty power for heavy-duty work. Ample power and capacity—surprising economy. Proved in actual combat warfare, now available for civilian service.



The new Red Diamond Engine powers International Models K-8, KS-8, KR-11, and KS-11.







NIJINSKY AND HIS WIFE, ROMOLA, ARE NOW LIVING QUIETLY IN VIENNA. IN 1934 MME NIJINSKY WROTE A BEST-SELLING BIOGRAPHY OF HER MAD HUSBAND

## NIJINSKY IN VIENNA

THE MAN WHO WAS ONCE WORLD'S GREATEST DANCER HAS COME OUT OF THE WAR ALIVE BUT STILL MAD

by WILLIAM WALTON

VIENNA, AUSTRIA

**A**t a window of the elegant Hotel Sacher a small, lithe man with thinning gray hair stares out across the tumbled ruins of Vienna's great Staatsoper. If his were a usual mind he would be thinking of the time, long before his own legend of beauty became a legendary tragedy, when this stage, now twisted and dusty with bomb wreckage, echoed to his triumphs. But in this man's slanted, faunlike eyes glints madness.

For 27 years now, almost exactly half his life, Vaslav Nijinsky has been insane. His tragedy, the tragedy of a great artist arrested at his zenith, has captivated the world's imagination as has no other man's insanity since mad King Ludwig dotted Bavaria with fantastically beautiful castles and ravishing mistresses. From the Swiss sanitarium where Nijinsky has spent most of his illness, conflicting rumors have drifted frequently—that he was getting well, that his

case was hopeless, that he could dance, that he would never dance again.

A new generation has grown up who never saw Nijinsky dance, but his fame is undiminished because of the host who still testify that none other before or since could dance as he once did. No one could make the breath-taking leaps, the *entrechats*, the arabesques Nijinsky made before he slipped into the twilight of mental disorder.

Now, by a window in Vienna, he sits for hours

CONTINUED ON NEXT PAGE 63



# 4 Reasons Why

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At Schönbrunn Castle Nijinsky stands at entrance to Victory Monument overlooking Vienna. His insane mind cannot grasp the war or what it has done to this city.

## NIJINSKY IN VIENNA CONTINUED

at a time, silent and immobile. None can say whether, looking across to the ruined opera house, he remembers the last time he danced here in 1913—danced *Les Sylphides* and *Le Spectre de la Rose* while Diaghilev, his jealous mentor, waited in fur-coated grandeur to escort him to a sumptuous supper such as all dancers wish after their exhausting performances. Now, as his modest hotel room grows darker, a voice behind him says, "Vaslav, *mon petit*, it is time for supper."

It is the voice of his alert, birdlike wife and biographer, Romola, herself once a dancer, who has devoted her life to caring for Nijinsky. Sometimes he remains at the window, not heeding her voice. More often he rises quickly, shaking off the lethargy, and moves across the room with arresting, catlike grace.

At 55, decay has not yet touched him physically as it has mentally. Before the war he grew fat, but rationing and wartime hunger, as well as increased exercise, have taken care of that. Now he is amazingly strong and supple for a man his age. Only his face betrays the ruin within, a face of Mongoloid cast seamed by the fears and suffering of his disease but still capable of relaxing into the warm, humorous face of a happy Slav. Sometimes the face shows terror or cunning or anger, sometimes merely the blank vacuity of a loon.

At dinner it is likely to be sullen. Nijinsky, locked in his private world, cannot understand why the table is not loaded with his favorite foods. Often he accuses Romola, his faithful protector, of plotting to starve him. He grows suspicious and sometimes violent. Nor can he understand anything else about wartime dislocations. Like a very young child, he is unable to understand the irrationality of war which, ironically enough, is understandable to a rational adult.

## The Russians changed his life

That made Mme Nijinsky's problem even harder in trying to preserve his life through the war. When it started, the Nijinskys were in Switzerland, where insulin-shock treatment had brought the great dancer a long way down the road to recovery—perhaps 80% of the way. While in the Swiss sanitarium, Nijinsky was visited by famed Serge Lifar, ballet master of the Paris Opera. Lifar managed to get him to perform an *entrechat* (see p. 68), but Nijinsky soon went back to painting weird gray spiders with glaring eyes. In 1940 the Nijinskys had arranged passage to the U. S. and arrived in Italy two days before Mussolini declared war. With that route blocked they turned back and to Romola's regret ended up in her native Hungary.

At first things were not too bad in Budapest. Then came the bombing. Any sudden loud noise deeply disturbs Nijinsky even now. The continual bombing was more than he could stand. He became maniacal. After a long search his wife found a country inn near Odenburg, on the Hungarian side of the Austrian border, where peace and safety lasted until the Russian forces began to approach last spring.

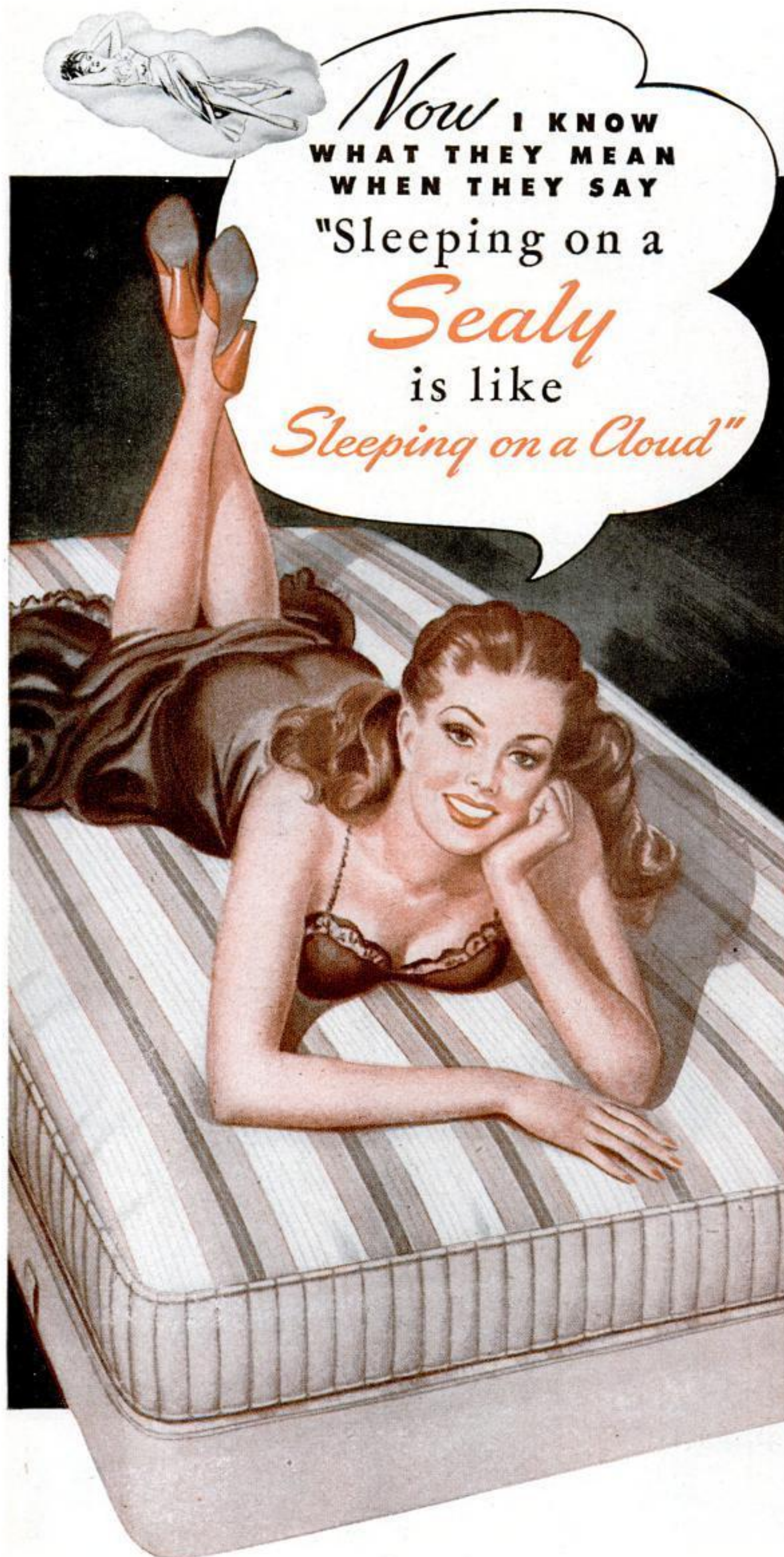
One night when the bombing and artillery shelling drew near, the

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The Russian ballerina Ulanova, shown dancing with her partner, W. A. Preobrajensky, in Vienna, roused Nijinsky from his mute stupor when he saw her perform recently.

## NIJINSKY IN VIENNA CONTINUED

Nijinskys hid in the woods. In the night sky overhead, ackack traced angry patterns that made Mme Nijinsky and the villagers huddle flat to the earth in terror. Not Nijinsky. As enchanted as a child seeing his first fireworks, he stood exposed throughout the raid, murmuring and exclaiming happily at this weird beauty spread before him. He had not the slightest comprehension of what was happening to the world.

Those days and nights when the Germans were retreating and the Russians advancing toward them were a nightmare of hiding in the woods or in an abandoned mine with thousands of other refugees. Suddenly Odenburg was full of sweating, cursing, laughing Russian soldiers shouting orders to one another, pushing their tanks and trucks westward toward Vienna.

In the babble of Russian words Nijinsky stood bewildered. On every side he heard his native tongue for the first time since 1911, when he left Russia. The effect was overwhelming, then galvanizing. Nijinsky, who through years of madness had spoken only in grunts and monosyllables, turned to the first Russian he could halt and welcomed him in his native tongue. The dam had broken. From then on he has talked, not always easily, but no longer do weeks pass without a word from him. He speaks Russian, sometimes French. And that was not the only way the coming of the Russians changed his life.

A few days later Nijinsky and a companion meandering through a wood came upon a barracks where Russian soldiers had gathered, singing around some balalaikas and an accordion. Nijinsky and his companion drew near and listened.

## Nijinsky dances again

"A little nip of vodka, tovarisch?" asked one of the soldiers, offering Nijinsky a bottle. He hesitated a moment, then said, "Da, da" smilingly. The bottle went the rounds and came back again. Nijinsky took another swig of the potent stuff. The music waxed louder and wilder. Two soldiers were twirling and leaping in the sunshine. Suddenly between them rocketed the little gray-haired stranger in the tweed suit, leaping, twirling, executing incredible figures, so far outclassing the dancing soldiers

CONTINUED ON PAGE 68





## How to lighten a load!

**M**OVING back to town, after a vacation in the country, or at the seashore, generally presents a major problem in logistics. Somehow, you always manage to accumulate "extras" that you didn't arrive with. And getting them all into the car for that trip back to town not only taxes your ingenuity, but puts an extra load on the car, too.

And that's only part of the load your car carries these days. For years of wartime wear and tear weigh on it perhaps more heavily than you think.

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In 1939 Vaslav Nijinsky, at the age of 49, made an abortive attempt to dance again during his confinement in a Swiss sanitarium. He is shown here starting an *entrechat*.

## NIJINSKY IN VIENNA CONTINUED

that they stopped to watch. The musicians smiled and played harder.

Soldiers shouted to comrades inside the barracks to come watch. They cheered and clapped. Few of these soldiers from the villages and steppes had ever been to Moscow, none had heard the name Nijinsky. But they recognized something tremendous in this pirouetting, leaping, dancing man who translated their familiar Russian music into whirling patterns of movement more beautiful than they had ever seen before.

They cheered and clapped until he fell exhausted. Then they revived him with vodka and he danced again and again. That night when they brought Nijinsky home to Romola he was very drunk and very tired and very happy.

Among his own countrymen Nijinsky showed such encouraging signs that his wife, hopeful of eventually getting him back to Switzerland, brought him to Vienna. Remembering his greatness, the Russians gave him a box for the ballet which had come from Moscow to entertain the troops. With many misgivings about how he might act in public, Romola took him one night. Enthralled, he sat through the performance hardly taking his slant eyes from the stage where, among other things, his own role in *Sylphides* was being danced. With his wife he agreed that Ulanova, the young new Soviet ballerina, was the greatest he had ever seen and that she could do "everything that Karsavina could do, and more."

## "He may get better"

Afterward the dancers were brought to meet him. Raised in the grand traditions of the ballet, they were awed to meet this historic ghost from the past. Nijinsky sat mute and motionless with his hands in his lap. For a long time he watched Ulanova. Then he rose from his chair and started toward her with his flowing, tigerish walk. His wife grew tense, fearing what Nijinsky, no stranger to violence, might do. He stopped in front of the ballerina a moment, grasped her hand, looked intensely into her eyes. "You were magnificent," he said in Russian, then glided back to his chair, glowing happily. The ballerina cried.

A few days later, Nijinsky took his first jeep ride, going through the fabulous gardens of the Schönbrunn Castle. Sitting in the front seat, he made joyous little noises as the jeep effortlessly climbed steep terraces to the colonnaded heights behind Schönbrunn. There he

CONTINUED ON PAGE 70





Top Style: CLIPPER LAST Nos. 4660 or 4505

Center Style: LEGIONNAIRE LAST No. 7618

Bottom Style: CRUISER LAST No. 4654

Today, seven out of every ten pairs of W. L. Douglas Shoes are going to the Armed Forces. To date over 2,500,000 pairs of shoes for the men in the Army and Navy.

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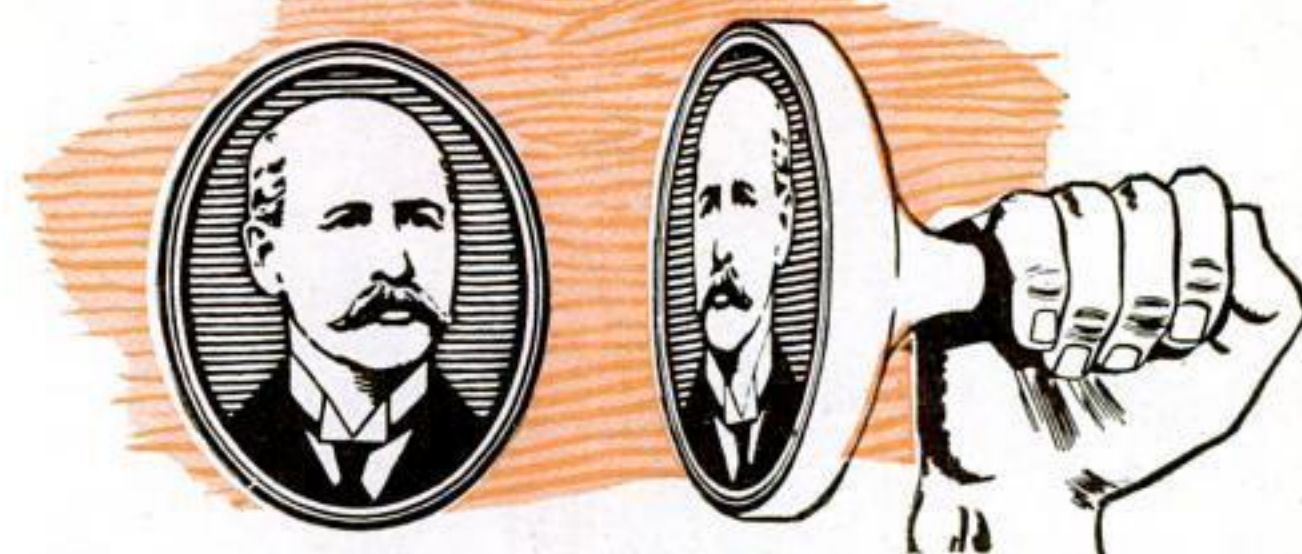
**INVEST IN VICTORY — BUY BONDS**

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The world-famous Douglas trade-mark stamped on a pair of shoes is your guarantee of fine craftsmanship — maximum wear — solid comfort. Be *sure* to get full value for your ration stamp — buy Douglas!

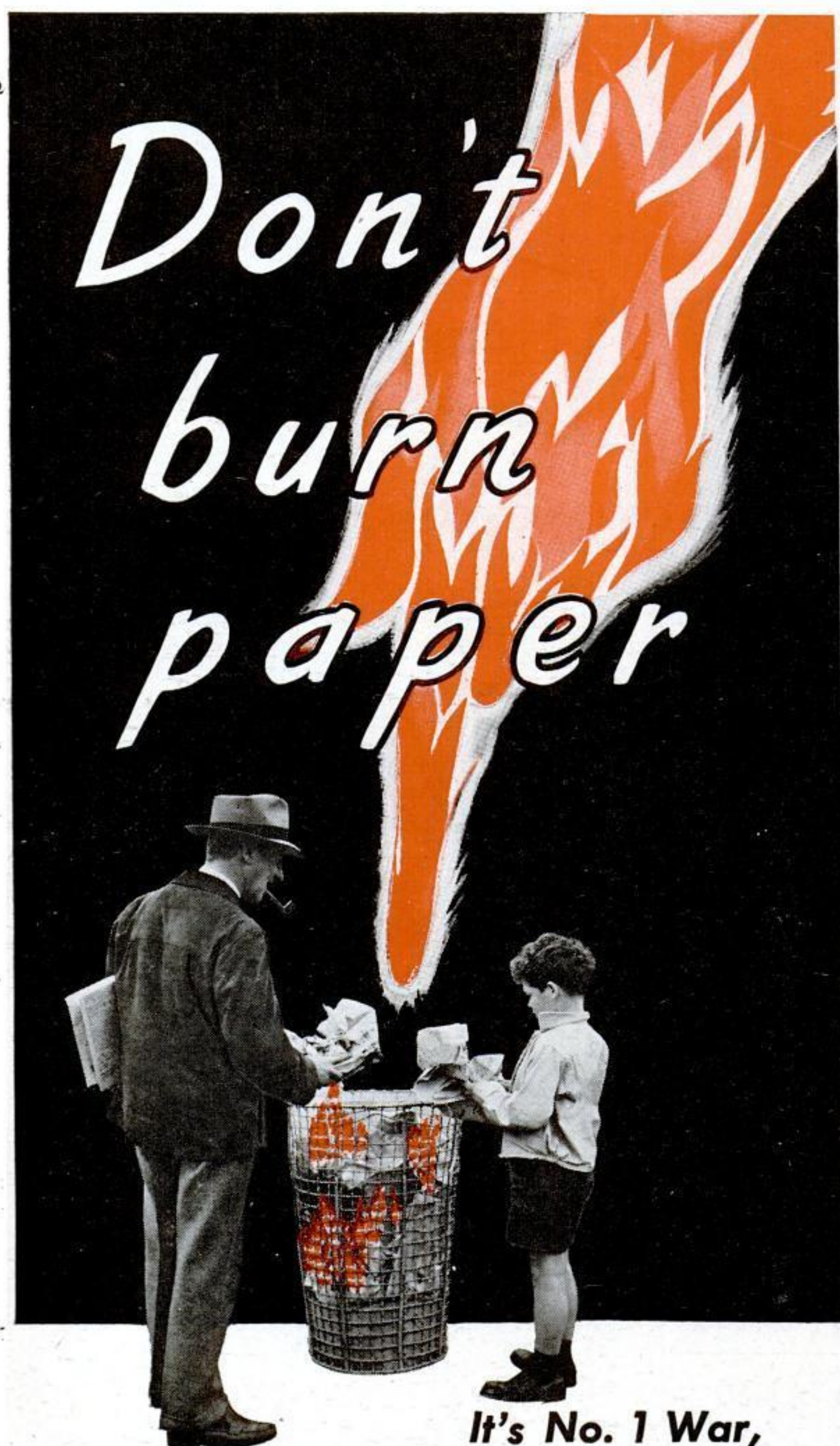
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Other Styles \$5.50  
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**It's No. 1 War,**

## **Home and Reconversion Material**

*Don't destroy paper! Don't waste it.* America needs it vitally for the Armed forces and at home — for nearly everything we use is protected and shipped in paper. But don't merely *save* it. Turn it in to your local salvage committee — separated and tied in bundles as follows:

1. Wastebasket scraps
2. Magazines and books
3. Corrugated boxes, brown paper and bags
4. Newspapers

**THE NORWICH PHARMACAL COMPANY, Norwich, N. Y.**

*This advertisement prepared in cooperation with the War Advertising Council*

# **UNGUENTINE**

*The FIRST THOUGHT in BURNS*

**Norwich**

A NORWICH PRODUCT

## **NIJINSKY IN VIENNA** CONTINUED

walked on the gravel terraces with all of Vienna and the palace gardens spread out below.

Standing there, watching this strange man whom she had nursed and guarded, Romola said, "He is happier than for a long, long time. Now that the war is over I hope to get him to Switzerland for more treatment. That is our only hope. Here we are hungry all the time. I cannot give Vaslav his proper diet. With good food and perhaps more shock treatment he may get better."

Hope for her has become a habit in the long days of watching over Nijinsky. Others who have seen him are less hopeful that, after 27 years, anything could restore his sanity. But perhaps the reawakening of the last few weeks portends more for Nijinsky.

"And one thing I must do for the sake of the world," she continues. "I must get him into pleasant surroundings and then have movies taken of him dancing. He is still the greatest dancer. I want the world to have a record of his dancing so people will always remember."

As she spoke the lithe little man sat clucking to himself happily. Suddenly he rose to his feet and took several short steps across the terrace, balancing lightly as though he might break into a dance at any moment or float off into the clear air above Vienna.



Thirty years ago Vaslav Nijinsky looked like this in his famous *Le Spectre de la Rose*. In that role Nijinsky made spectacular floating leaps that have never been equaled. "You have just," the great dancer once explained, "to go up and pause there a little."





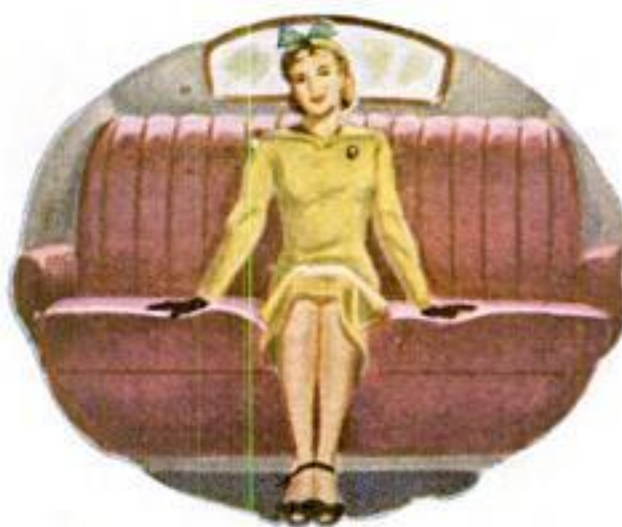
## FOAMEX\* SOMETHING BETTER TO SIT ON by FIRESTONE

The Foamex-cushioned sofa above is cut away to show how Foamex replaces old-style upholstery innards—with one wonderful springy-and-soft material that cushions you on millions of air bubbles.

You're going to get better rest after Victory, every time you sit or sleep on Foamex. You'll float in ease and comfort, like riding on a cloud. For that's what Foamex is—a magic cloud of bubbly air and latex cells, millions of them in an easy chair or mattress.

Each cell is a soft air cushion, each is alive with springy buoyancy—each one is a breathing ventilator that keeps Foamex air-cooled, dust-proof, damp-proof, mildew-proof, odor-proof.

®TRADE MARK



Better to ride on, too! Foamex is the ideal seat cushioning for automobiles, trains, buses, aircraft.

Those countless cushion-cells will cradle you in luxury you never dreamed possible—unless you're one of the lucky thousands who bought

Foamex mattresses, cars with Foamex seats, Foamex-cushioned furniture, before Foamex went off to war. The railroads, airlines and bus lines are oldtime Foamex users, too.

And they have found Foamex a mighty economical luxury—because it wears almost forever, always fluffs itself back to shape after being sat or slept on. Those little Foamex comfort-bubbles are *permanently welded* together, into one *sag-proof, lump-proof* material.

Most Foamex still goes to cushion fighting men and instruments against concussion. Soon, we hope, it will be back on the job for you—making your car seats, your chairs and sofas, your beds and *you* feel simply wonderful.

**ANOTHER FIRESTONE FIRST!**  
ELECTRONIC PROCESSING now gives Foamex  
extra comfort and longer life



# Firestone

LISTEN TO THE VOICE OF FIRESTONE MONDAY EVENINGS OVER NBC



# CHEVROLET



More and More, America Is Realizing  
**“TRUCKS PROMOTE PROGRESS—  
PROGRESS DEMANDS  
TRUCKS!”**

*Trucks move 65% of incoming freight and 69% of outgoing freight for 741 busy war plants.*

★ ★ ★

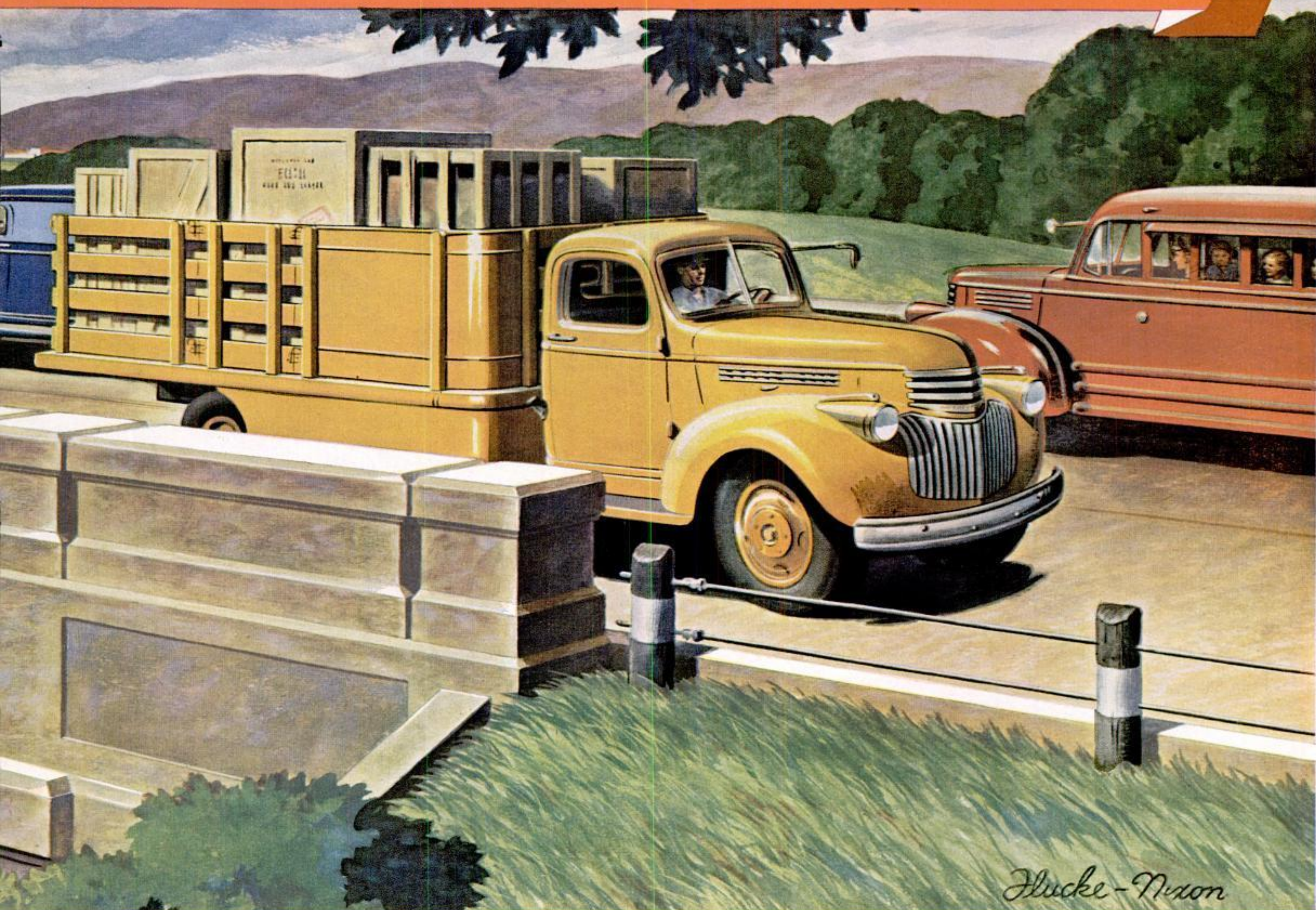
Trucks have actually become a part of our national assembly line itself, extending from factory to factory, connecting sources of supply and semi-finished products and even raw materials.

★ ★ ★

*54,000 U. S. communities depend entirely on motor trans-*



# FIRST IN TRUCK PRODUCTION



port for many vital supplies and services.

★ ★ ★

Trucks haul 58.3% of cattle—64.8% of calves—66.6% of hog receipts at public stockyards.

★ ★ ★

Trucks haul more than 75% of live poultry and more than 50% of egg receipts at important markets.

★ ★ ★

98% of farm products leaving farms move by truck.

All facts and figures compiled from Motor Truck Facts, official publication of Automobile Manufacturers Association.

. . . And yet fully one-half of all the trucks in use in America today are nine years old or older—and one out of every eight trucks was made prior to 1931.

**“TRUCKS PROMOTE PROGRESS—PROGRESS DEMANDS TRUCKS!”**

HIGH QUALITY  LOW COST

1 OUT OF EVERY 3 TRUCKS IS A CHEVROLET

CHEVROLET MOTOR DIVISION, General Motors Corporation, DETROIT 2, MICHIGAN

KEEP BUYING WAR BONDS





## *Tell me it's really happening...*

I CAN'T LOOK away from your eyes, John.

If I did, you might disappear, the way you do in dreams.

Let me just sit here and remember how your hand feels on my arm... how my heart curls up when you smile... how wonderful it is to be heartbeat-close again.

Tell me it's really happening, John. It *must* be real. I can touch the stripes on your sleeve. I can hear the clock tick. I can see my reflection in your eyes. But if it isn't real, darling, I don't want to find out.

This is the one thing I've ever wanted, really wanted... for you to come back.

It's too late now to wish I'd said yes before you went away. But this time I'm ready. Ready

with my heart, and my mind... and with what, in the old days, would have been called my dowry.

I don't have an awful lot, darling. Just Grandfather's desk, and some linens, and (please be impressed) enough International Sterling in our pattern to give us that fine starting-out-with-the-best feeling.

Maybe the kind of house we'll be able to afford won't live up to our sterling for a long time. But owning beautiful solid silver like International... ever notice how it gives character to a home? How it makes other people look sort of *respectful*?

I want so terribly to be a good wife, John. Do you think I show signs?

IF YOU, too, are choosing your "family silver"... ask your jeweler to show you International Sterling's beautiful artist-designed patterns.

Even now, when production is still limited, you can start your set with basic place settings in your pattern... and the more special pieces, such as iced-tea spoons, etc., later on.

Remember, in this lifetime choice, that only the best can give you true pride and satisfaction. With beautiful, shining International Sterling on your table, you have the day-in, day-out pleasure of knowing you've kept faith with your dreams.

TUNE IN to *The Adventures of Ozzie and Harriet*. Sunday evenings, 6:00 p.m., E.W.T. Columbia Broadcasting System.

Copyright 1945, International Silver Company



## *International Sterling*





DRIVEN TO DELIBERATE INVALIDISM TO SMASH HER BROTHER'S MARRIAGE PLANS, LETTIE (GERALDINE FITZGERALD) BROODS IN BED, CONCOCTS MORE DEVILTRY

## MOVIE OF THE WEEK:

# *Uncle Harry*

Trick ending muddles a murder

**U**ncle Harry is a tautly paced and expertly acted psychological thriller which examines the case of a small-town fuddy-duddy nagged into committing a murder by the frantic scheming of an unnaturally affectionate sister. The 1942 stage version of *Uncle Harry* ended on a note of sardonic frustration, with the sister going to the gallows for the murder her brother committed. But in filming the play Universal slammed hard against the Hays Office's rock-tough

ruling that no screen criminal can go unpunished for his crime.

To find a solution satisfactory to both the Hays Office and the box office, Universal set a near record for trying endings. In one series of previews in Los Angeles five different endings were tested. Upshot was a finale which makes the murder a dream. This pleased the Hays Office but so outraged the movie's producer, Joan Harrison, that she quit Universal.





**The Right Point**  
*for the way you write*  
**and for the job you do**

When you buy your Esterbrook, you select the point that's made precisely for the way you write. Esterbrook's 33 numbered points cover every writing style and every writing job.

NOTE: Army and Navy requisitions are still large. That's why dealer stocks are low.

33 numbered replaceable point styles



*Broad writing* 9968



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FOR YOUR PERSONAL SELECTION

33

NUMBERED POINTS  
 for your personal selection.

**Esterbrook**

RENEW-POINT FOUNTAIN PEN

**"Uncle Harry" CONTINUED**



Home life of Harry (George Sanders) consists of a series of bitter wrangles among sisters, Lettie and Hester (Moyna Magill), and housekeeper Nona (Sara Allgood).



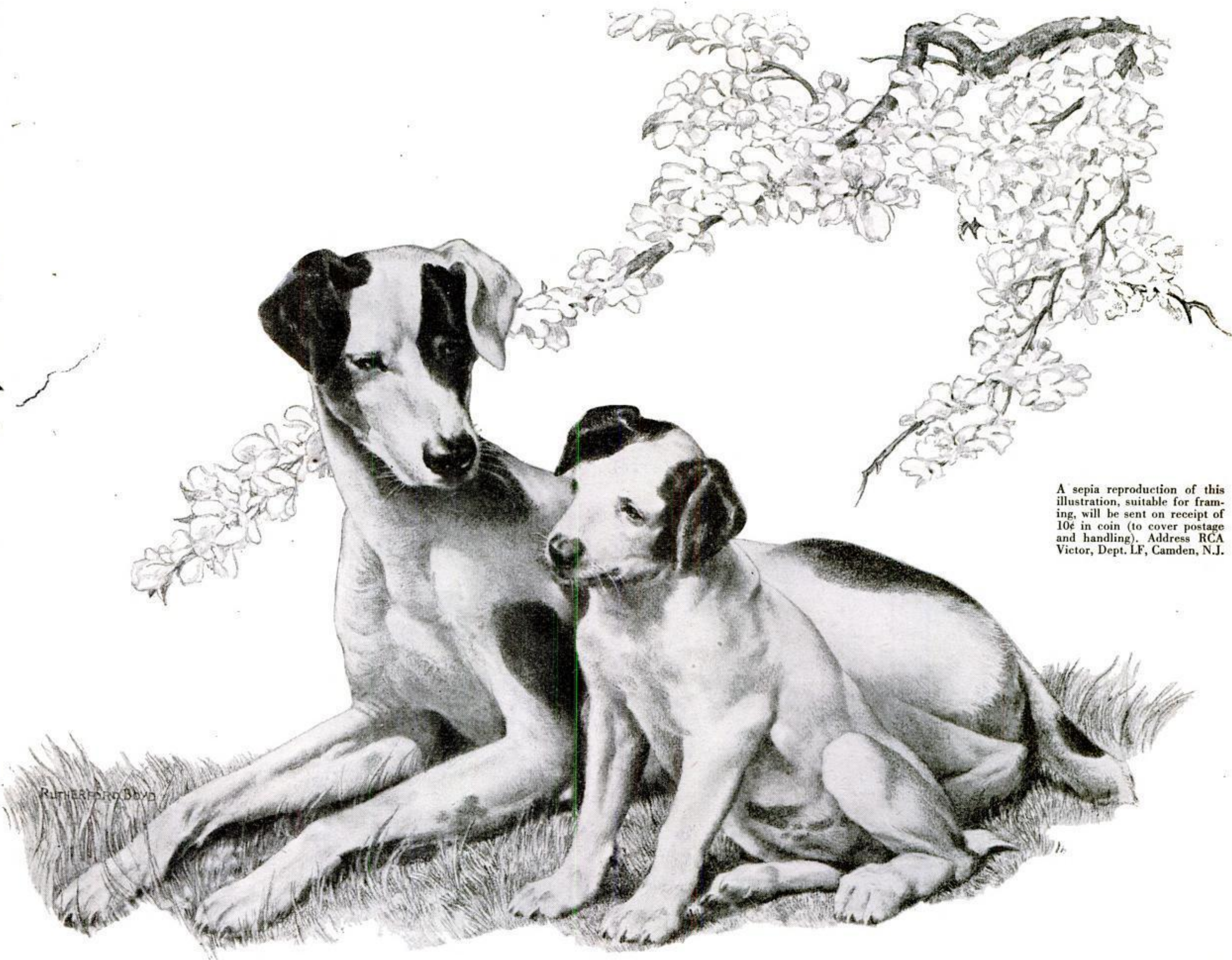
On a hotel porch Harry finds company of Deborah (Ella Raines) pleasanter than that of his heckling sisters, finally falls in love with her, asks her to marry him.



Deborah meets Harry's family, is received coldly by Lettie, warmly by Hester, who hopes to see Harry freed from Lettie's abnormal affection, which borders on incest.

CONTINUED ON PAGE 79





A sepia reproduction of this illustration, suitable for framing, will be sent on receipt of 10¢ in coin (to cover postage and handling). Address RCA Victor, Dept. LF, Camden, N.J.

## *There's something in heredity . . .*

**Y**ou expect a great deal from the latest of a long line of champions—and *you are right!* Heredity counts, whether you are buying pedigreed fox terriers or postwar radio sets.

Particularly when it comes to a radio phonograph, you realize that the background and experience of its makers may be the single most important fact you should consider.

Where else, for example, in the field of recorded music will you find a forty-seven year heritage equal to that of Victor? Where in the field of radio

engineering will you find a twenty-six year background of achievement equal to that of RCA? And, finally, in what radio phonographs, other than those which bear the trade mark VICTROLA\*, will you find *combined* the double background, double experience and double inheritance of RCA Victor?

THE NEW RCA VICTOR SETS will include many great improvements—the result of experience gained in building 350 different types of war equipment, *none of it ever manufactured by any-*



*one before . . .* FM and television, of course. Radios and the famous Victrola (made only by RCA Victor) will range from excellent low-priced table models to fine automatic consoles. See your RCA Victor dealer before you buy. \*© RCA VICTOR DIVISION OF RCA



# RCA VICTOR

RADIO CORPORATION OF AMERICA



"Oh Boy-Mom  
gives us these  
twin blessings!"



**JIMMY:** Jeepers, Jerry, do folks think us twins have such lovely, kissable skin by luck . . . don't they know we're *doubly-blessed* by Mennen Baby Oil?

**JERRY:** Golly, I dunno. Ever since we squeaked our first squawk, Mom has been usin' mild, soothin' Mennen *Antiseptic* Baby Oil on us every day. Doctor said it'd help keep our skins smooth and healthy, and it sure does!

**JIMMY:** I'll say—and here's another blessing. Us *Mennen* babies ain't bothered so by nasty diaper rash, urine irritation and lotsa other skin troubles. And do we smell *sweet*!

**JERRY:** I hope you're listenin', ladies. 'Cause *your* baby's skin deserves the *best*—Mennen *Antiseptic* Baby Oil.

\* 4 times as many doctors prefer Mennen *Antiseptic* Baby Oil as any other brand

\* Over 4 times as many hospitals use Mennen Oil as all other baby oils and lotions combined.

\* Mothers buy more Mennen *Antiseptic* Baby Oil than any other baby oil.



**MENNEN** ANTISEPTIC BABY OIL



Also, be sure to use MENNEN ANTISEPTIC BABY POWDER to help keep baby's skin comfy and healthy. Super-smooth; new scent makes baby smell so sweet. Preferred by more Baby Specialists than any other powder.\*

## "Uncle Harry" CONTINUED



**Lettie** discovers Harry and Deborah plan to marry and, in a frenzy of frustration, rushes to talk Deborah out of it. Failing, she then fakes heart attack, fools no one.



**Harry** accuses **Lettie** of deliberately feigning sickness to destroy his happiness with Deborah. He plots to murder her but by mistake sister Hester drinks the poison.



**Hester** falls dead. Charged with murder, **Lettie** will not clear herself, knows **Harry** will never marry if she hangs. Movie ends when murder turns out to be a dream.

CONTINUED ON PAGE 80



*Your recreation does you more good  
when your disposition is right...*

When you're in a good mood, you can more quickly erase  
the strain and tension of your working hours. Your mind  
and body are more receptive to the repair that healthful  
recreation should bring.



*"Fresh up" - keep smiling!*



When your recreation leaves  
you feeling thirsty and pleas-  
antly tired, right then and  
there's the time for a chilled  
bottle of 7-Up. Sip it slowly  
... let the lively, happy bub-  
bles run over and under your  
tongue. See how the crisp,  
clean flavor puts out your  
thirst in an instant ... how it  
wakes up your mouth ... how  
it gives you a "fresh up." You  
like it so well you feel like  
smiling ... and it likes you.

You'll derive much more  
pleasure from your play if you  
"fresh-up" before and after  
the game. Get your supply at  
any store displaying those eye-  
catching 7-Up signs.

*You like it  
it likes you*

**LAUGH!**  
Hear the newest, funniest  
variety program on the air—  
The "Fresh-Up" Show.  
Mutual Network... 8:30 p.m. EWT—  
7:30 CWT—6:30 MWT—8:30 PWT.  
Every Wednesday

Copyright 1945 by The Seven-Up Company



## Relentless Enemy Breaks into American Homes

When this enemy gets to work floors and walls rot and disintegrate, plumbing breaks down, paint and paper are destroyed. Water, attacking through strategic points such as chimneys, roof eaves, window and door heads is the most persistent enemy of every home that stands.

Protect your home. Revere copper, brass and other rustproof alloys are now available for home defense in limited quantities. Flashings, gutters, downspouts, termite shields, weather stripping, hot and cold water pipes, heating and air conditioning lines, hot water storage tanks and heaters, are a few of the places where Revere products, at little more cost than rustable substitutes, can provide lifetime service. Revere can supply you through its Distributors in all parts of the country.

Listen to *The Human Adventure* on the Mutual Network every Wednesday evening, 10 to 10:30 p.m., EWT.

**REVERE**  
COPPER AND BRASS INCORPORATED  
Founded by Paul Revere in 1801  
Executive Offices: 230 Park Avenue  
New York 17, N. Y.



Joan Harrison and art director check blueprints of set. Having quit Universal, she plans to produce independently, wants to do murder story involving only children.

## WOMAN PRODUCER EXCELS IN THRILLERS

Joan Harrison, producer of *Uncle Harry*, worked as Alfred Hitchcock's chief assistant for years until 1941, when she left him with her blonde head stuffed with ideas. After an aggressive career as a writer, she became one of Hollywood's few successful women producers, specializing in mystery thrillers. Born in England some 35 years ago, she is unmarried, uses a shrewd mind trained at the Sorbonne and Oxford, also admits, "I use my sex."



Lolling on terrace of her modern house which she helped design, Miss Harrison discusses a script. She is very stubborn about scripts, wants to do things her own way.





# LONG OPERATIONS MADE SAFER

A remarkable drug is giving surgeons help they never had a few years ago. Through its use, much risk is taken out of operations, and the patient has a smoother, faster recovery. This is especially true in abdominal surgery that so often requires a long operation.

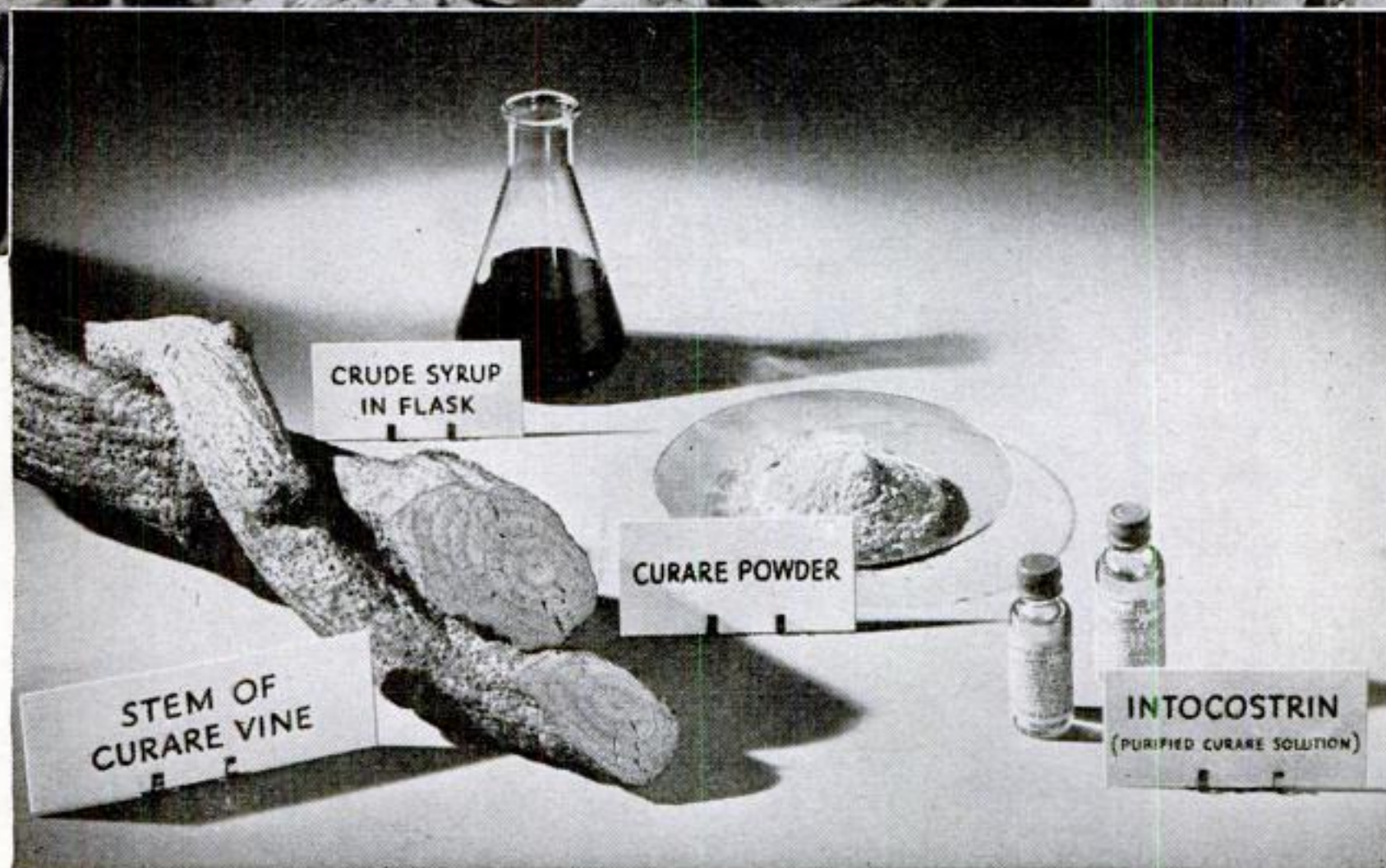
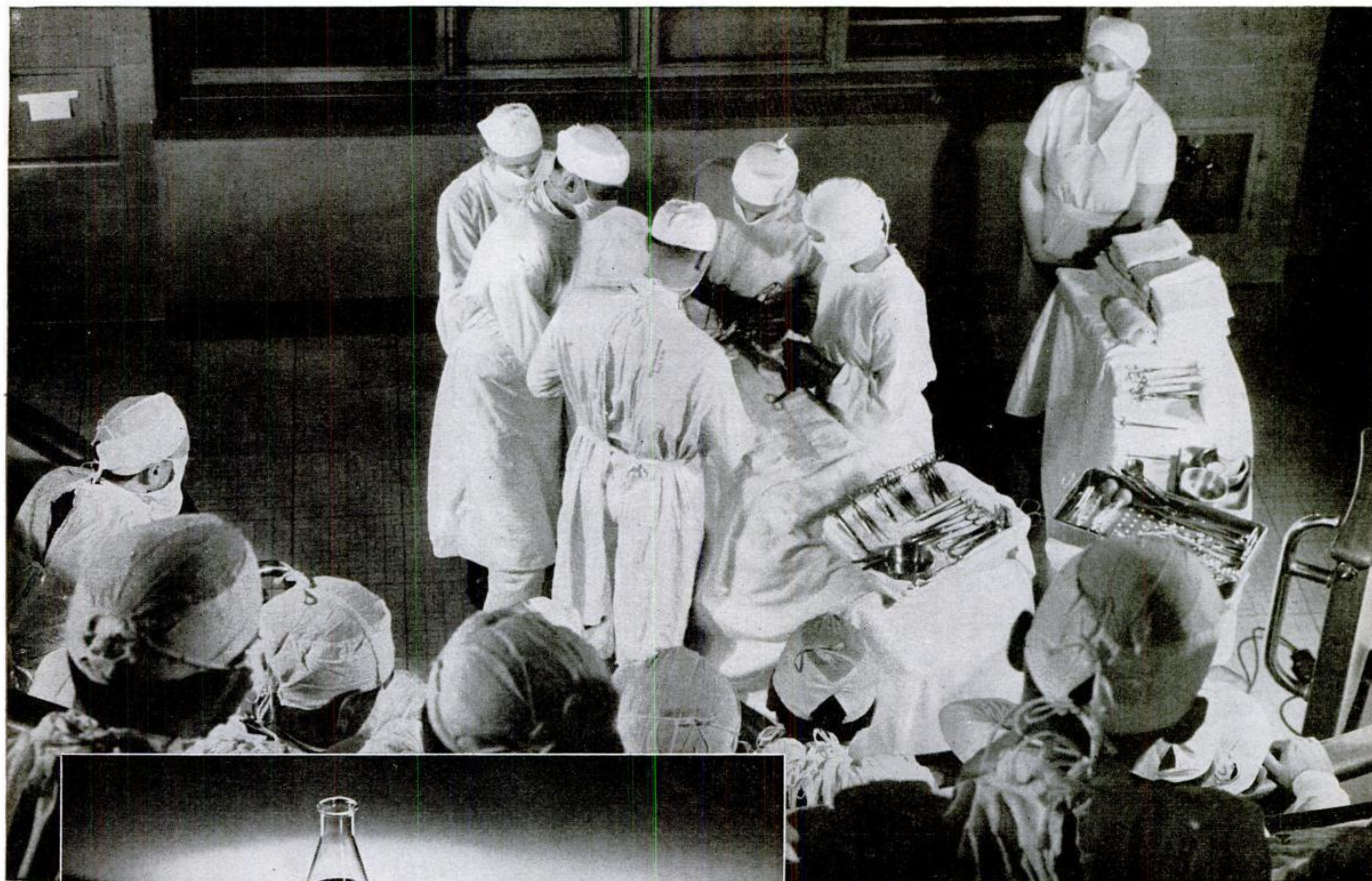
The drug is *curare*. Used along with

general anesthesia, and by a skilled anesthetist, curare produces a temporary but complete muscular relaxation. This effect is one of the greatest aids a surgeon can have. Ordinarily, under general anesthesia, muscles are likely to remain tense, resisting the surgeon's skilled hands. Curare softens up that resistance.

Striking examples of curare's value are being seen in battlefront hospitals, where multiple wounds may require over four hours of repair, even with two surgical teams operating. The use of

curare—by permitting a lighter plane of anesthesia—avoids shock that tends to cause death. Lives of wounded men have been saved by this miraculous drug.

Research at the Squibb Laboratories developed the method of producing a reliable extract of curare for medical use. In 1939 for the first time a standardized, purified curare (Intocostin) was made available to physicians by Squibb . . . another contribution by Squibb scientists to the health and safety of people everywhere.



**First use** of curare (Intocostin) in anesthesia took place in Montreal in 1942. Now, for example, one anesthetist alone has reported over 1000 administrations, all successful. Curare's helpful effect occurs within about two minutes. At critical moments in an operation when complete relaxation is needed in the patient, surgeons and anesthetists now have a drug at hand that will give relaxation uniformly, quickly, and harmlessly.

**SQUIBB**  
*A name you can trust*

Sir Walter Raleigh, in 1595, brought to England specimens of curare that he obtained from the Orinoco Indians of South America. For centuries it was a mystery drug, although its fundamental physiologic action became well known. However, not until Squibb scientists had provided a standardized and purified curare in the form of Intocostin was its general medical use made possible.



# HUDSON RIVER SCHOOL

## ITS ARTISTS PAINTED FIRST U. S. LANDSCAPE PANORAMAS

The gentlemen in the gallery at the left have been both the most popular and the most neglected painters in the history of U. S. art. They are called the Hudson River School because their first canvases, some of which are shown on following pages, depicted the Catskill mountain scenery along the Hudson River. A century ago their paintings were so highly regarded that connoisseurs paid as much as \$35,000 for a single one. But their popularity faded and they were relegated to the cellars of museums. Recently the Chicago Art Institute rescued 164 Hudson River School paintings from their dusty obscurity and hung them in the bright light of its galleries.

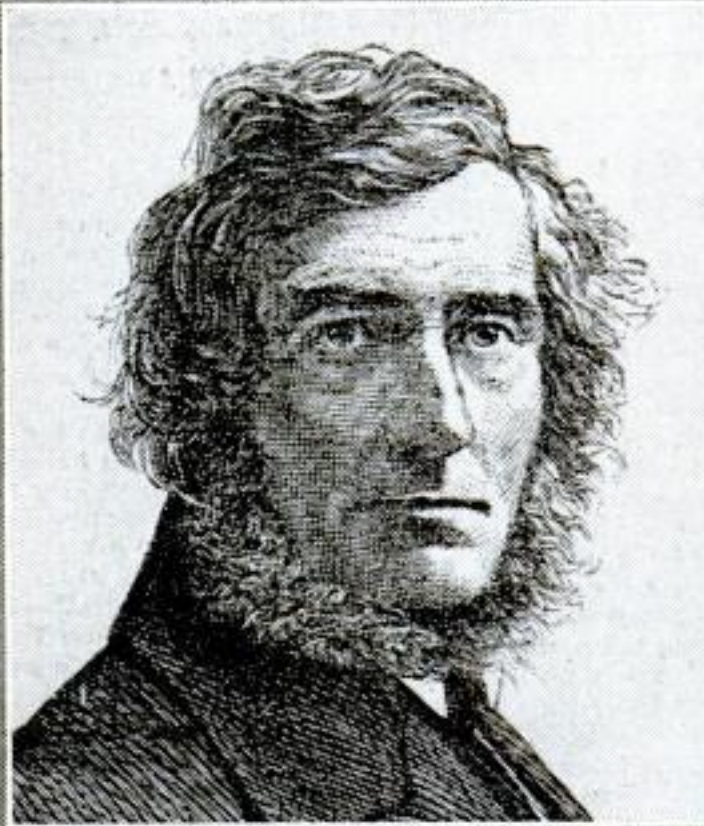
First of the Hudson River School painters was Thomas Cole. One bright fall morning in 1826 he flung a green baize bag containing paints and brushes over his shoulder and trekked up the Hudson Valley. He settled in the town of Catskill and was soon followed by other artists. Americans, who rarely traveled more than 100 miles from their homes, were impressed and pleased by the grandeur of the U.S. which the Hudson River painters spread across their canvases. Spurred by success, the artists traveled west to Yosemite and the Grand Canyon and even to Europe for bigger and grander scenery. Wherever they were, they painted with photographic detail which at first delighted and then began to bore art collectors, who by 1900 had lost their interest in these once-prized works. In the development of American art, the Hudson River School is important chiefly because its members were the first American landscapists. Still, the public never lost its liking for these painted panoramas. Last winter Sears, Roebuck & Co.'s mail-order customers voted Inness' *Peace and Plenty* as their favorite subject for a catalog cover (below).



**THOMAS COLE**, born in 1801, was the founder of Hudson River School.



**WASHINGTON ALLSTON**, South Carolina, was influenced by Italian art.



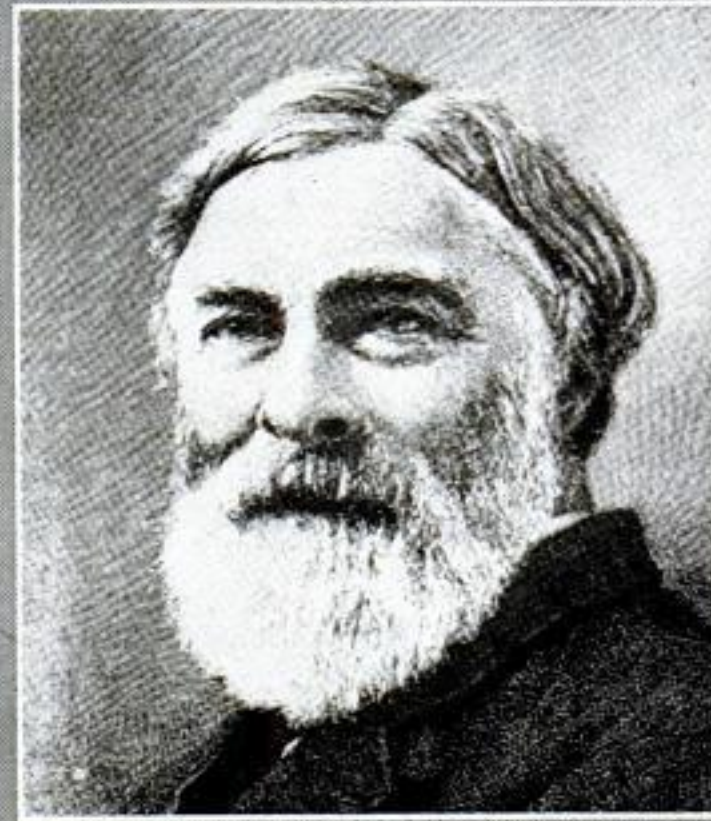
**ASHER B. DURAND** was president of the National Academy of Design.



**JOHN F. KENSETT** of Connecticut gave up engraving to become a painter.



**GEORGE INNESS** is one of most famous painters of Hudson River School.



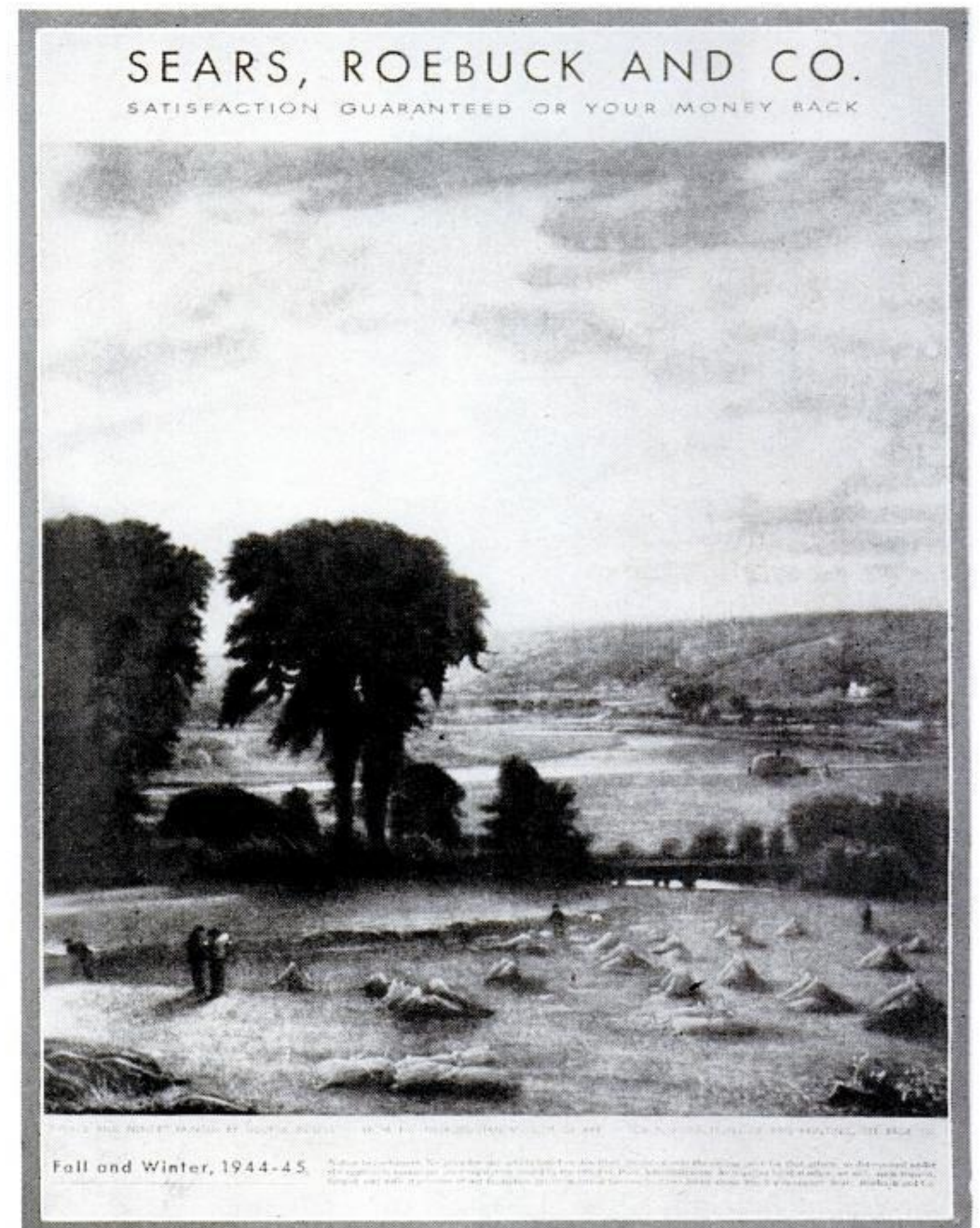
**JASPER FRANCIS CROPSEY** of Staten Island painted autumn scenes.



**THOMAS MORAN** was one of last Hudson River painters, died in 1926.



**ALBERT BIERSTADT** got \$5,000 to \$35,000 apiece for huge panoramas.



**MOST POPULAR CATALOG COVER**, according to poll taken by Sears, Roebuck, showed *Peace and Plenty* by George Inness. The section of the painting shown above was printed on last winter's catalog. It was reproduced in full in LIFE, Oct. 31, 1938.





**CHOCORUA MOUNTAIN, N.H.** was painted by William M. Hart. The view across Chocorua Lake, which looks exactly the same today, is considered one of the most picturesque of all New Hampshire scenes by 1,000,000 visitors who flock every summer to this New England mountain area for bathing, camping, hunting and fishing.

**HUDSON RIVER FROM WEST POINT** (*below*) was done by William Guy Wall. He set his easel up in front of the West Point Military Academy, painted Mt. Taurus—renamed Bull Hill—across the river and Storm King Mountain in far left distance. Behind trees at the right ferry boats run back and forth from West Point to Garrison.





## HUDSON RIVER SCHOOL CONTINUED



**SCENE IN THE CATSKILLS**, done by Frederick E. Church in 1851, shows country which gave painters of the Hudson River School their first inspiration. The brooding 4,000-foot mountains and rolling foothills spurred these first U.S. landscapists to seek even grander panoramas in the Rockies and abroad.



**LANDSCAPE** is by John Frederick Kensett, one of the best of the Hudson River School. Although, like his contemporaries, he traveled abroad and to the West, he never attempted the super-dramatic canvases of other landscape painters. After his death in 1872 paintings in his studio sold at auction for \$150,000.



**ELIJAH FED BY THE RAVENS** was painted by Washington Allston of Boston in 1818. Some of the first Hudson River artists like Allston turned out landscapes which included allegorical and Biblical subjects like those done by 19th Century Italians. Later these U.S. artists became simple scene painters.



**VIEW OF CATSKILL HOUSE**, painted by Jasper F. Cropsey in 1855, shows the first Catskill summer hotel. It was patterned in 1823 after a Greek temple, is still a resort. Its massive white façade is fronted by 13 tall white pillars crowned by gilded Corinthian capitals. Visitors in the 1850s traveled to it from New York on a "floating palace" steamboat.



**THE OLD BRIDGE** was done by Charles Hubert Moore in 1868 after the artist had settled in the Catskills to paint simple scenes of the local countryside. Later Moore taught art at Harvard, then traveled to Venice to study medieval architecture. He returned to the U.S. in 1877. Nineteen years later he became the first director of the Fogg Art Museum.



**LANDSCAPE WITH RAFT** showing two men poling up a narrow winding river in mid-summer was painted in 1830 by Thomas Doughty of Philadelphia when he was 37. Doughty was one of the few Hudson River School painters who did not get carried away by trying to put too much of one scene on a single canvas. He always painted small, simple landscapes.





**VIEW OF RUTLAND, VT.** depicts foliage in minute detail because its author, Asher B. Durand, was originally an engraver who worked his pictures out in sharp hard lines. Durand was one of the first U. S. landscapists to paint outdoors. He advised his contemporaries to work from nature and not from sketches as many of them did.

**VIEW OF SING SING** (*below*), painted by Robert Havell in 1856, shows, in center of canvas, large prison building near river. Originally an Indian name meaning "place of rock," Sing Sing was renamed Ossining in 1901 by townspeople who tired of jokes associating them with the prison. Main Street now runs on top of hill in foreground.







**THUNDERSTORM IN THE ROCKIES** is one of the few smaller pictures painted in 1859 by Albert Bierstadt, who specialized in gigantic panoramas which often sold for as much as \$35,000. His elephantine canvases have now lost their great value but his less ambitious pictures like the one shown here are still prized as works of art.



**MOUNTAIN SUNRISE** is the result of many long and lonely walks Thomas Cole used to take through the Catskill Mountains. He painted this in 1826, the year he decided to settle in Catskill, N. Y. after traveling in England and the West Indies and deciding that the Hudson River region was the most beautiful spot in the world.



**WESTERN LANDSCAPE** is one of Thomas Moran's best pictures. Moran did it in 1864 during one of his many trips to Yellowstone, Grand Canyon and Yosemite where he worked hard to capture on gigantic canvases the drama of the enormous vistas of the West. Like Bierstadt's, his huge paintings are considered ineffectual today be-

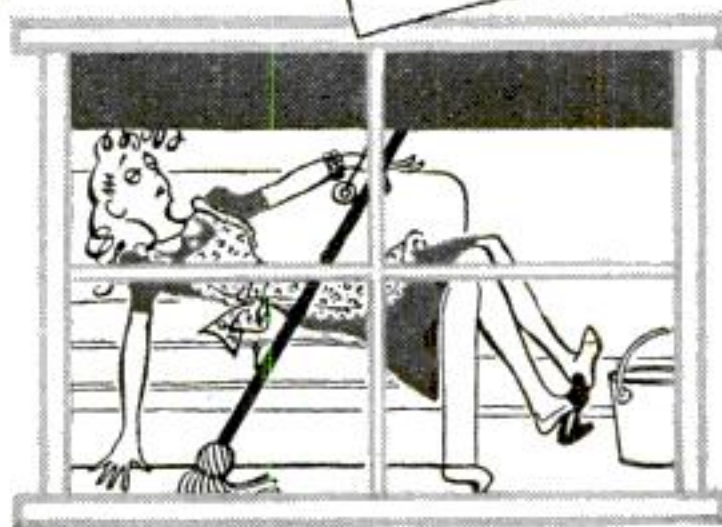
cause of the sheer weight of monotonous detail, but his smaller pictures, like the one shown here, still rate as good art. Before he went west, Moran studied painting in England. While there he became engrossed in the works of England's great landscapist, J. M. W. Turner, whose brilliant style he reflected for the rest of his life.



Now is the time  
for a gal to remember  
The pleasures and problems  
that come in September!



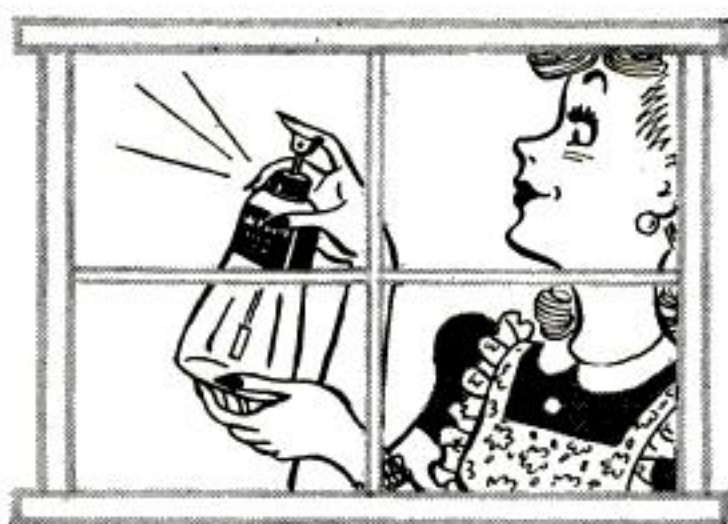
1. There's hustle and bustle all over the town  
As curtains go up and as carpets go down.



2. When everything's finished, some housewives perhaps  
Are wilted and tired to the point of collapse.



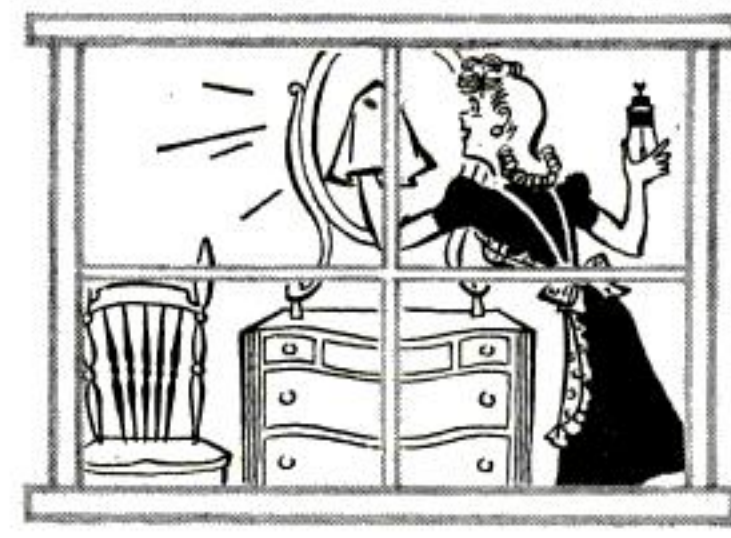
3. But others (the *smart* ones!) survive very well  
With the help of a wonder of which we will tell.



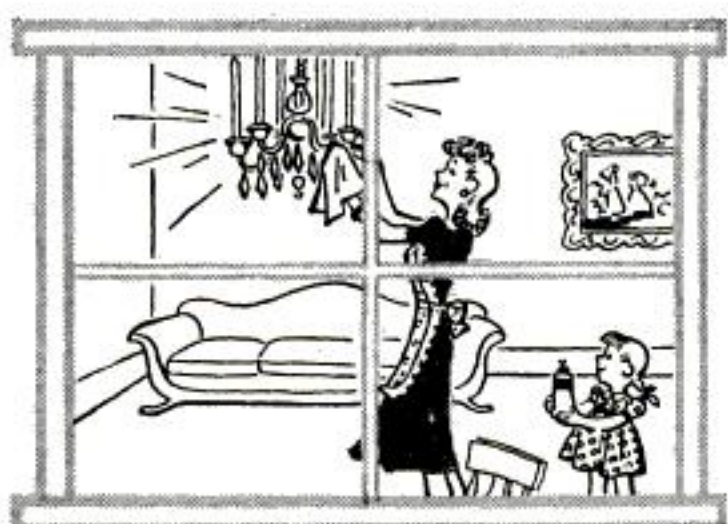
4. It's *Windex*—for windows, and everything glass,  
A polishing marvel that none can surpass.



5. Just spray and then wipe—it's as easy as dreaming  
To clean all the windows and get them a-gleaming.



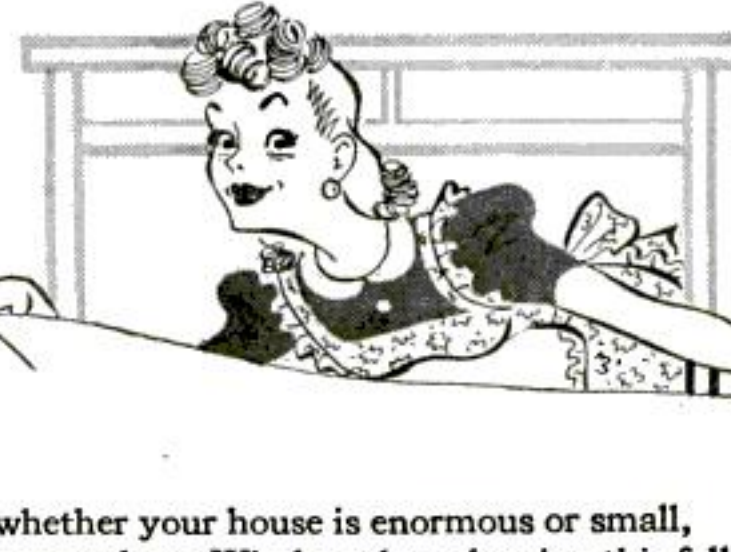
6. The same is the case with the mirrors and such—  
The effort is little, the sparkle is *much*!



7. The picture frames ditto. And what have we here?  
The magic extends to the high chandelier!



8. And even the auto can share in the fun—  
Just look at its windshield as bright as the sun!



9. So whether your house is enormous or small,  
Be sure to have *Windex* when cleaning this fall.  
With the 20-ounce size what a bargain is yours  
To help you go zipping through glass-cleaning chores!

Get **Drano**  
too! Opens  
clogged drains—  
makes drains  
clean, sanitary!



For fall house cleaning—get brighter windows quicker with

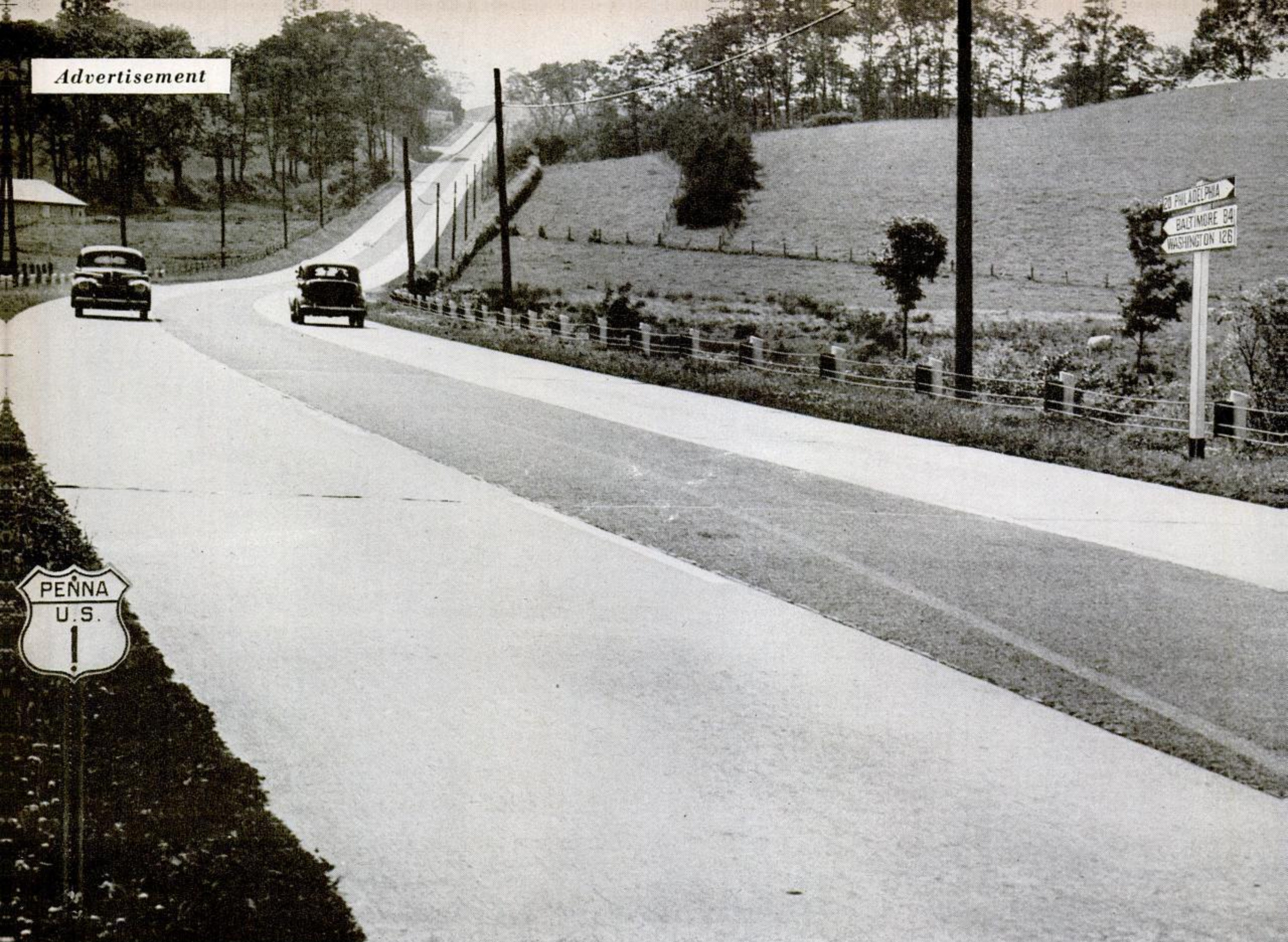
**WINDEX**

A PRODUCT OF THE DRACKETT COMPANY

Costs only a fraction of a cent per window. *WINDEX* is a *must* for house cleaning! No streaking, no film, when you insist on this nonflammable, oil-free cleaner. No need even to *try* cheap substitutes since *Windex* costs but a fraction of a penny per pane.







HISTORIC ROUTE U. S. 1 WHICH LINKS 12 OF THE 13 ORIGINAL STATES IS NOW PARALLELED BY A TELEVISION "HIGHWAY" FORMED BY THE ANTENNA TOWERS OF

# PHILCO HAS OPENED "U. S. TELEVISION HIGHWAY 1"

F. C. C. Chairman Paul A. Porter speaking on the first telecast ever made from Washington congratulated Philco for "a distinguished 'first' in pioneering in this vital aspect of television."



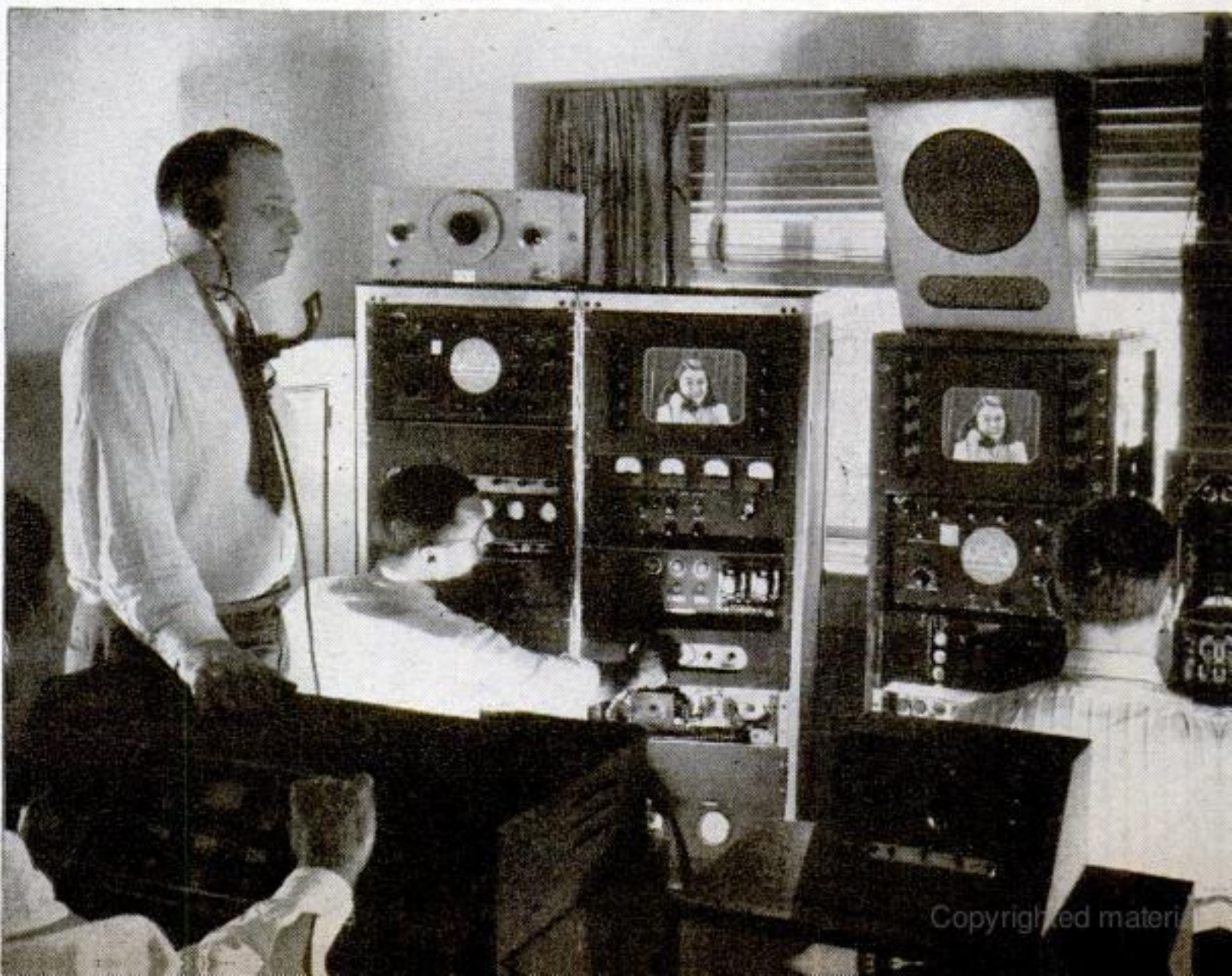
America's newest "highway" which brings television a step closer to every home in the land is now open between Washington and Philadelphia.

Television programs now flash over a route steeped in tradition, for the Philco multiple-link relay towers parallel a path inseparably linked with the growth of speedier communication in the United States.

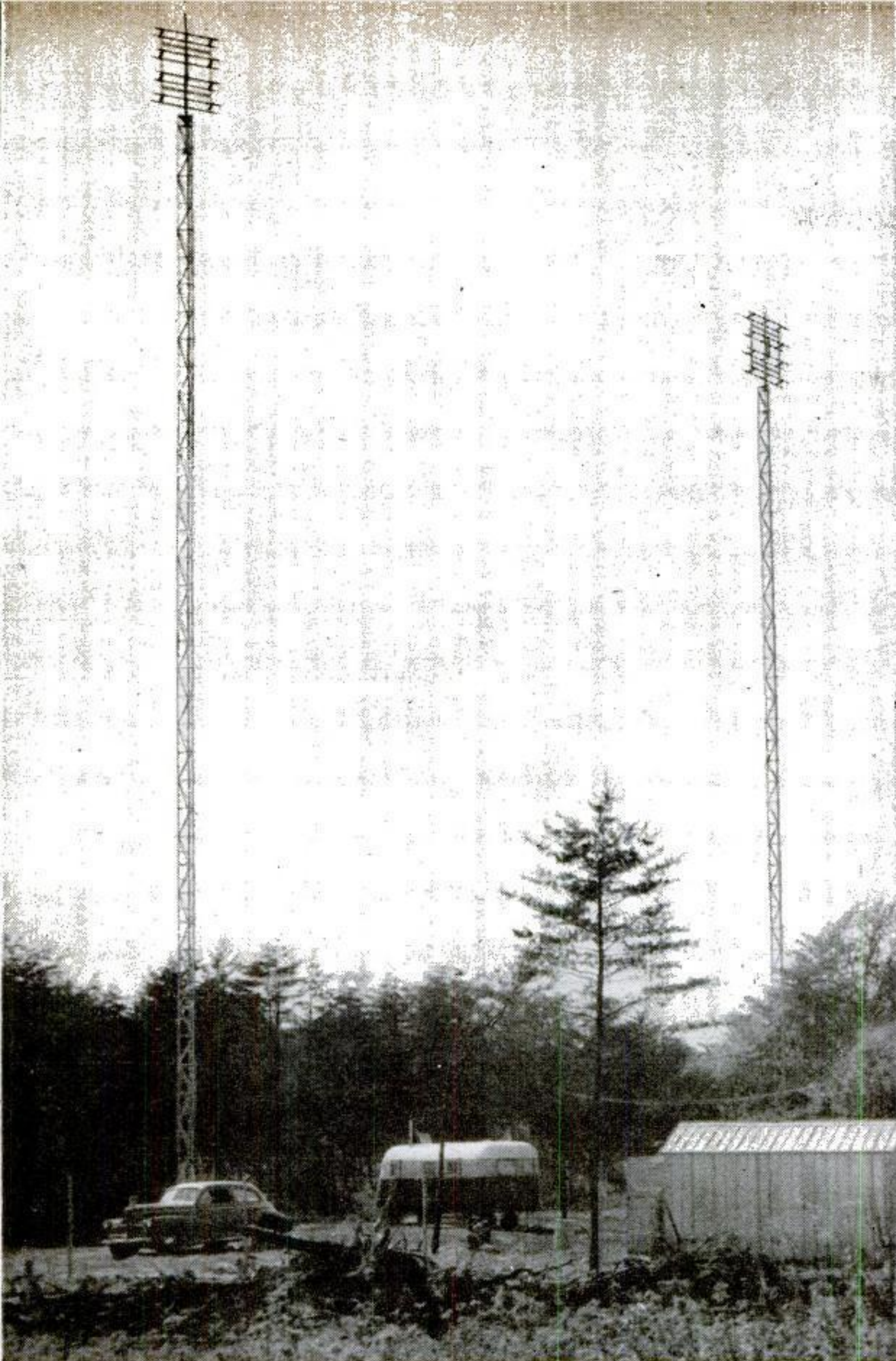
Long before Washington, the city, was founded and even before Washington, the man, was born, colonists blazed the Potomac Path. As the colonies grew, stage coaches began to bump over the ruts and wallow through the mud from Philadelphia to Virginia. America's first railroad followed the same course out of Baltimore... and the first telegraph message between two cities passed over wires strung along the tracks of that railroad.

With the coming of the automobile, America's great network of hard-surfaced

Four-man crew of television engineers operates monitoring equipment for the initial broadcast in the control room of the Philco television studio, Hotel Statler, Washington, D.C.







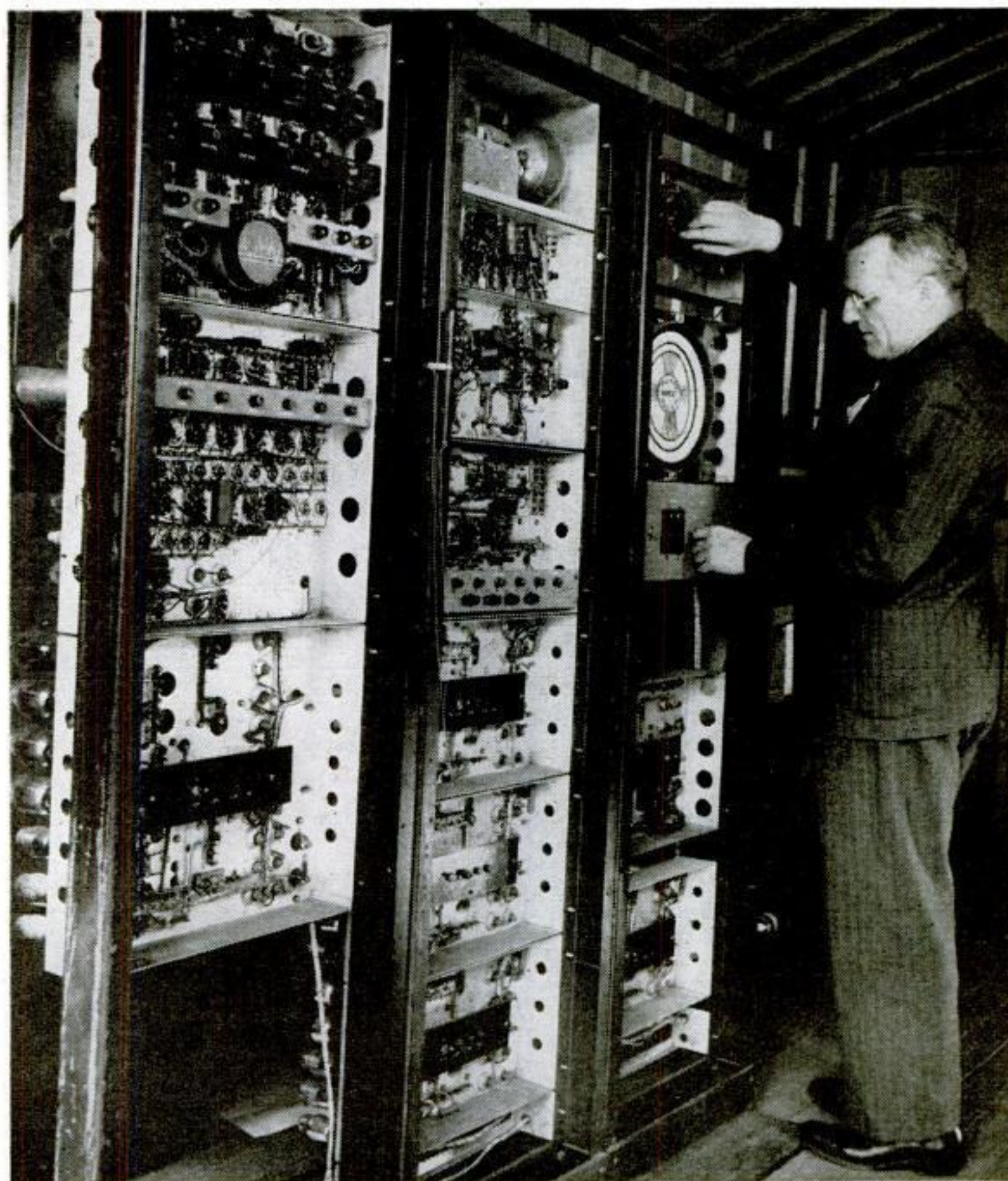
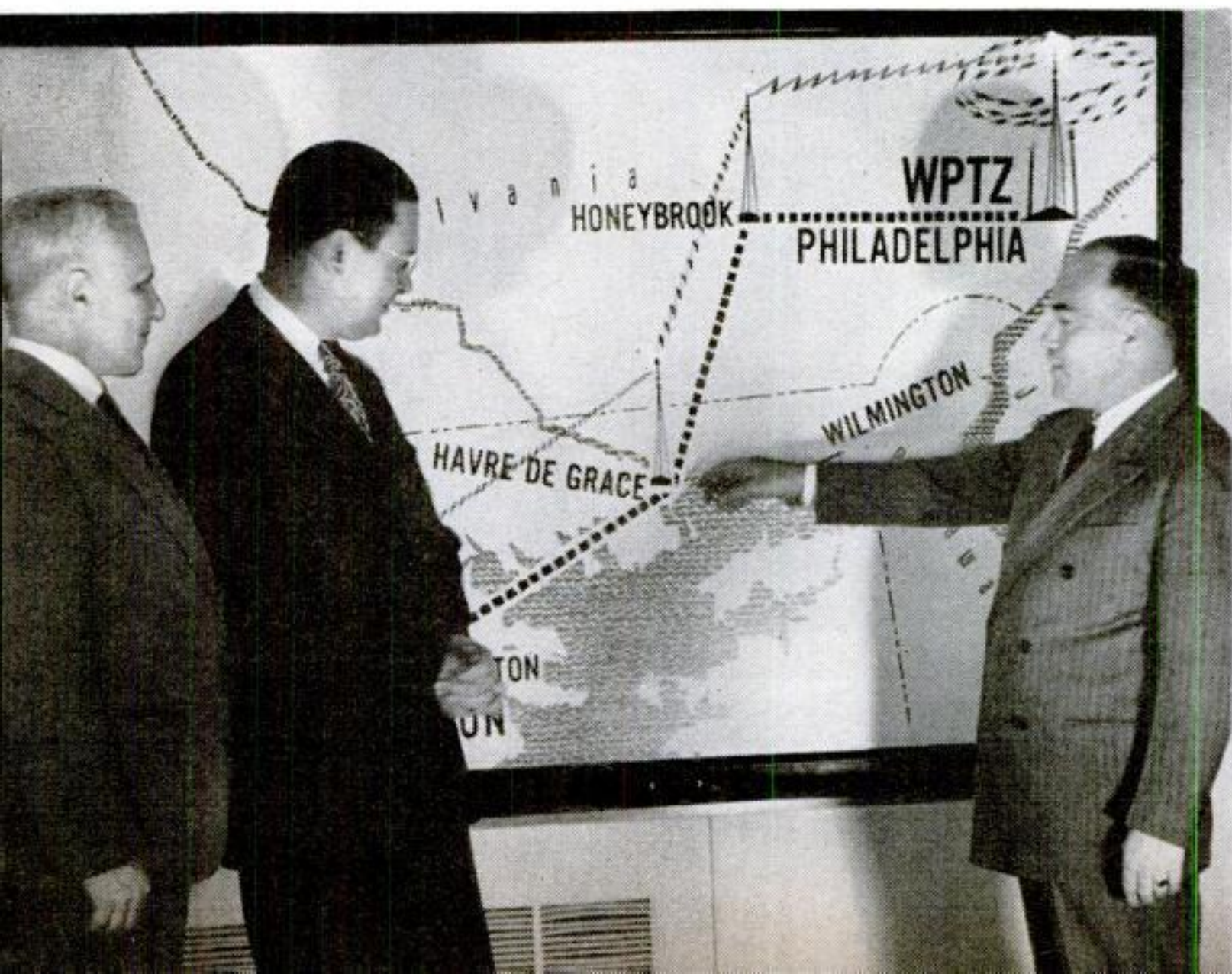
PHILCO'S MULTIPLE-LINK NETWORK BETWEEN WASHINGTON AND PHILADELPHIA

highways began with U. S. 1 . . . then as now the main line of communication along the Atlantic seaboard. Now that historic route is paralleled by television's first inter-city micro-wave network . . . designed by Philco engineers and built by Philco to make television commercially as well as technically an accomplished fact.

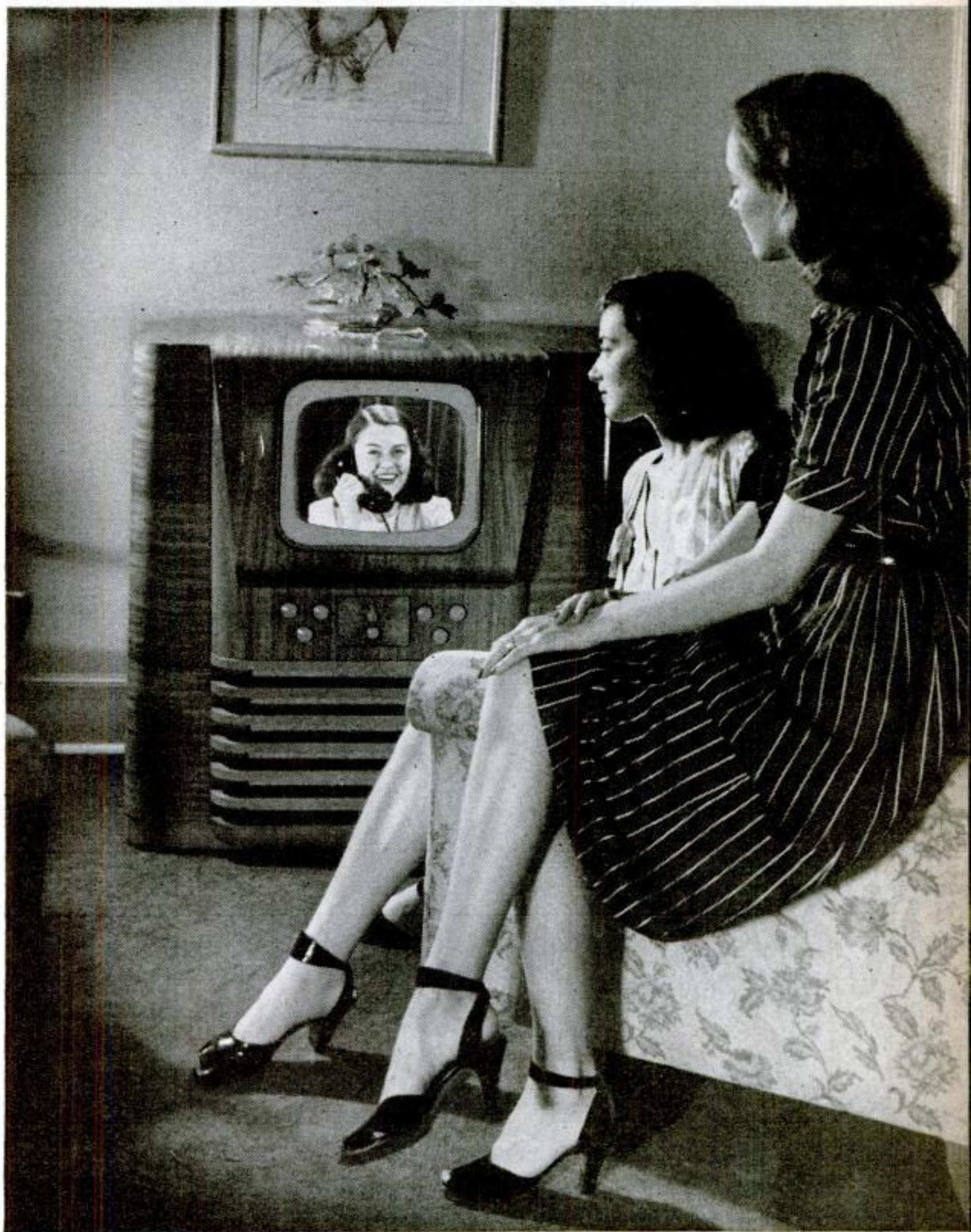
Just as U. S. Highway 1 led to the construction of a road system that linked all America . . . this Philco television "highway" along the same route points the way to a nation-wide network which will bring thrilling television programs to homes from coast to coast. Naturally, Philco, the pioneer in multiple-link television feels these programs-to-come will be viewed with especial brilliance and clarity in those homes equipped with post-war Philco Television Receivers.

PHILCO CORPORATION, Philadelphia, Pa.

Dr. Karl T. Compton, President of M.I.T. and Chairman Porter study the map on which Philco's President John Ballantyne traces the route of relay stations over which programs travel.



Engineers operate these signal generators at each relay. Television development is closely associated with Philco's wartime engineering and development of Radar and electronic equipment.



Philco Television Receivers built before the war already bring televised programs to many homes in areas where transmitters operate on a regular schedule. Thousands more will enjoy even finer reception of programs through expanding television networks and Philco Television Receivers incorporating technical advances resulting from Philco's wartime work in Radar.





"French look" today has been affected by bicycles and walking, which are main forms of transportation. Figures are slimmer, clothing is adapted to this enforced exercise. Examples are the

high-flying, billowing skirts which the girls flip back over the seats of their bikes, to the voracious admiration of soldiers. These are typical girls of Paris on a warm summer afternoon.





LIGHT, FULL SKIRTS AND SHAPELY LEGS ARE THE BADGE OF FRENCH GIRLS TODAY. THE NEW HAIRDO IS DOWN AND LONG. FIVE OF THESE GIRLS HAVE DYED HAIR

## THE FRENCH LOOK

SEXIER AND LESS NATURAL THAN THE AMERICAN LOOK, IT IS THE RESULT OF EFFORT AND INGENUITY

By long-standing consensus of males, the young women of France are the most alluring in Europe. In the past year, to the not inconsiderable worry of wives and sweethearts at home, many Americans have had a chance to check this ancient truth at first hand. The French Look, they have found, is quite different from the American Look (LIFE, May 21). It is more openly sexy, more consciously stylish, less "natural." It is, to a great extent, a Parisian look. While GIs still prefer the Great American Girl, they gave high marks to the gay but artful beauties of France who make it their prime purpose in life to please men.

French girls make the most of the many natural attributes they possess and the many artificial aids they devise. Their natural attributes are small figures, beautifully molded legs and ankles and deep, expressive eyes. Their artificial aids are heavy

make-up, false or dyed hair, figure-shaping brassieres, carefully plucked eyebrows, thick-soled and high-heeled shoes.

War and hard times have enhanced, not diminished, the French girls' allure. Lack of gasoline has forced them into exercise, which they dislike intensely, and thus improved their looks. Scarcity of food has made them slimmer. Bare shelves and high prices have brought out the great French resourcefulness. If she cannot afford a good dress (for around \$300) a Frenchwoman goes to a showing at one of the *couturiers*, sketches a dress and makes it herself at home. She wears handsome ersatz shoes of wood or straw. If she has a little chocolate or butter she swaps it for a blouse. The Frenchwoman's genius for looking smart is based on her good taste but is finally achieved only through the spending of an enormous amount of time and effort.



**Eyes** of French girls are deep and very expressive of their changing moods. Mascaraed lashes add to depth and mystery.



**Eyebrows** are carefully plucked to thin curving lines, accentuating contours of the face. To some this gives theatrical look.



**Lips** are thin and mobile, usually heavily made up. French girls sometimes think fuller American mouths are "sensual."

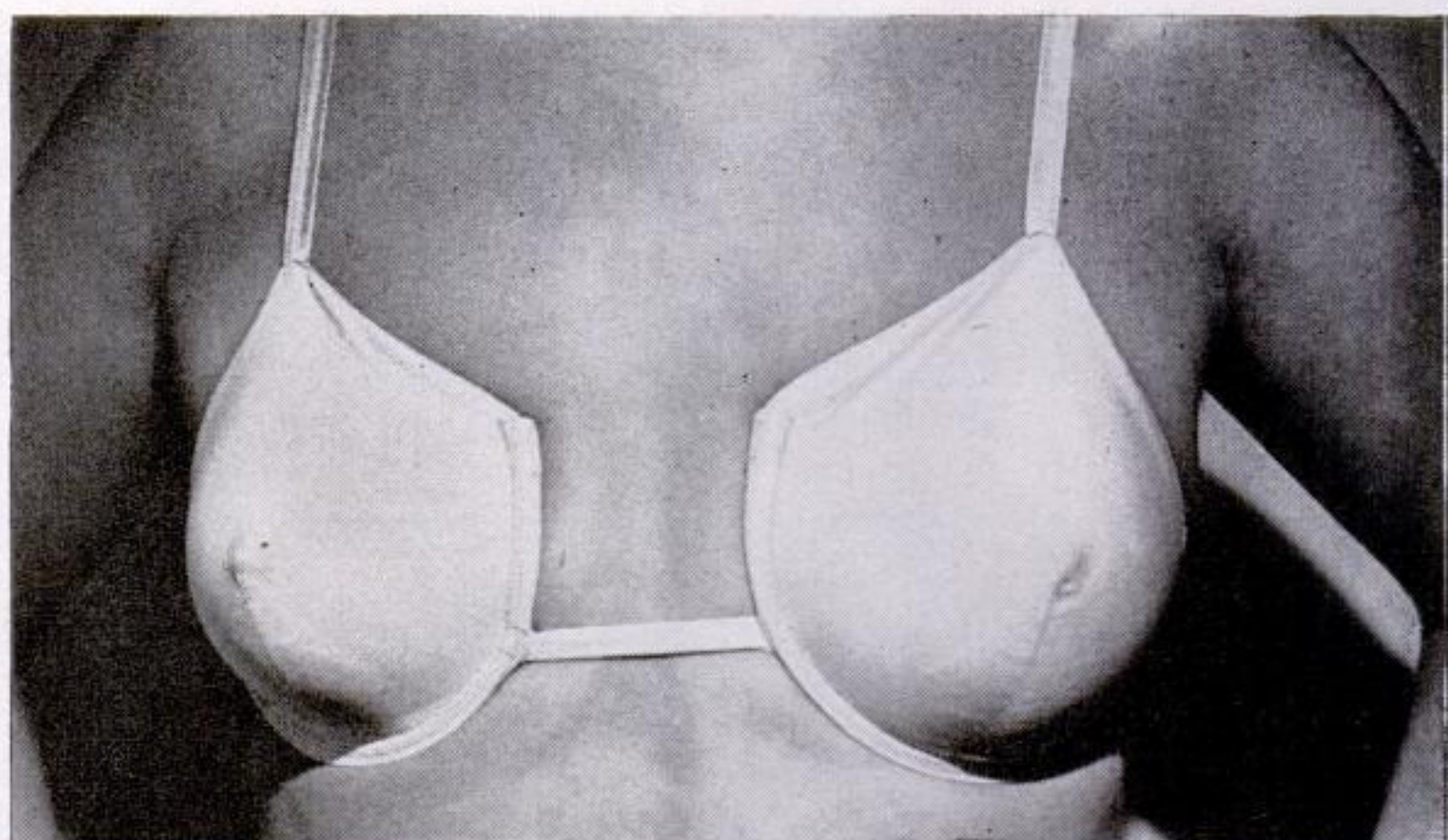




**Legs** are one of the prime assets of the French girl. They are shorter and slimmer than the typical American legs, but beautifully molded. French ankles and feet are small, the average shoe size is 5.



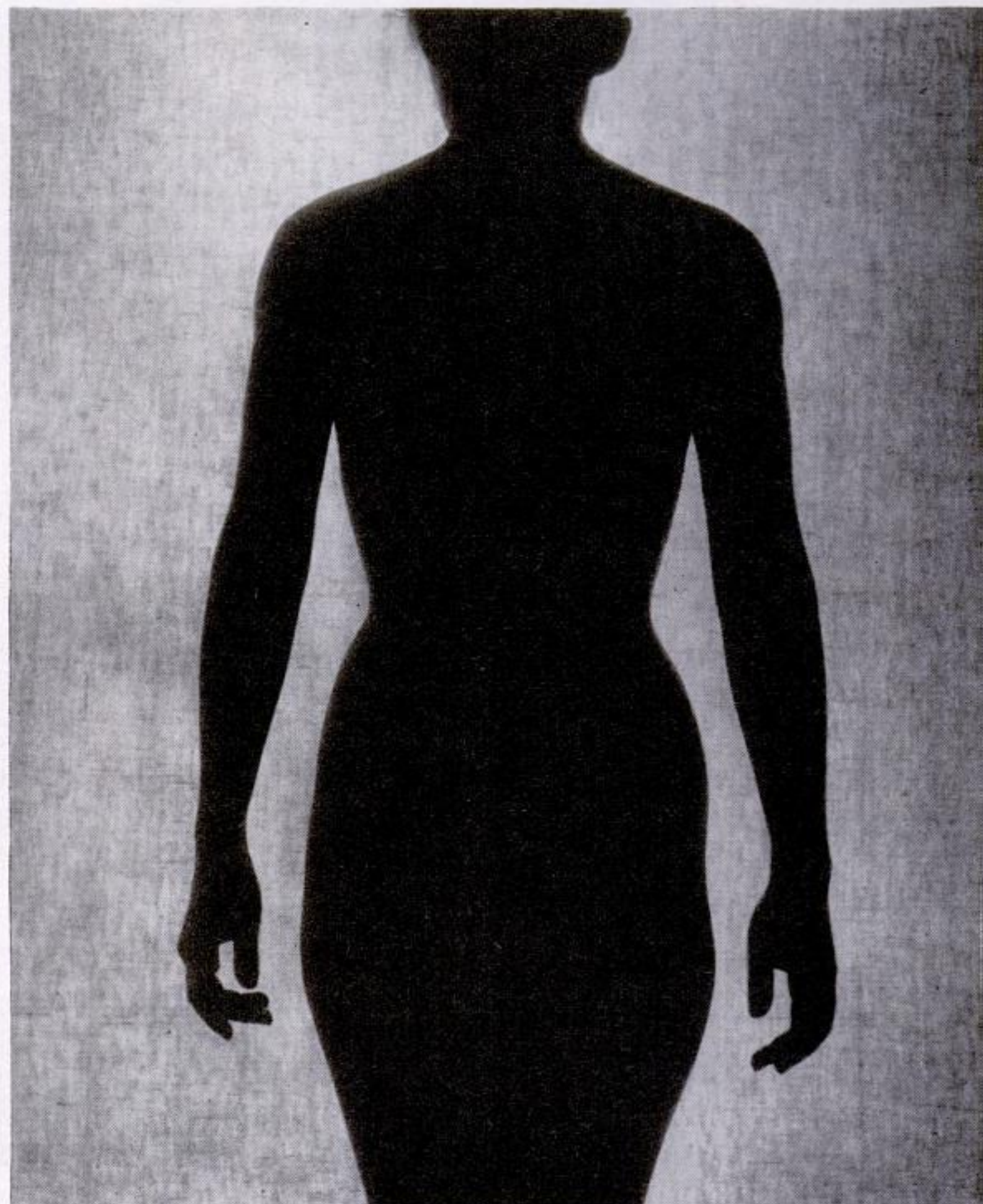
**False hair** is used for pompadours or crown of braids. Starlet Nicole Moray chooses \$100 braid. Most hair comes from nuns, who crop hair when taking vows. Pompadours are now a fading style.



**Small bust** is characteristic of the French girl, who frequently does without a brassiere. When she wears one, it is usually specially designed like this model for décolleté dresses.



**Very large and fancy rings** are a current fashion. Some cost \$720. Many Frenchwomen, fearing inflation, invest in jewelry. Gold armlets or charm bracelets are also much favored.



**French figures** are smaller, thinner than American, a difference accentuated by food shortages. Height averages 5 ft. 4 in., waist 21 in., bust and hips 30 in. Stomach is small and flat.





**Earrings** are large, colorful, crazy. They are often made of plastic or sequins, sometimes of imitation flowers. This is a white-and-red plastic set which costs about \$10.



**Much massage** keeps figures slim. Masseuses usually are impoverished White Russian women who charge \$2, come to home. French girls prefer massage to exercise.

CONTINUED ON NEXT PAGE

**THINK OF MAKING  
RICH, DELICIOUS COFFEE  
in just 5 seconds!**

It's the NEW  
G. WASHINGTON'S  
INSTANT COFFEE



## COSTS NO MORE THAN OLD-STYLE COFFEE

**T**HINK of getting a delicious, rich-bodied, full-flavored cup of coffee in just 5 seconds! You can—with the NEW G. Washington's Instant Coffee! All you do is add hot water to *half a teaspoonful*! It's ALL coffee; that's why it tastes so good. No coffee pot; no grounds; no waste. Make it any strength you like—it's always uniform. And it costs no more! The 2-oz. container is equal to a *full pound* of ground coffee. Try it!



**NOTICE!** Much of the G. Washington's Instant Coffee now being made is going to our Armed Forces. However, keep asking for it! Your grocer will have it eventually.



WASTE PAPER IS WAR PAPER!

**NEW**  
**G. WASHINGTON'S**  
**INSTANT COFFEE**





*Bottled in Bond*  
under U.S. Government supervision;  
your assurance of *age, proof*  
*and quantity.* The signature of  
the maker is your assurance of  
*the finest quality.*

**JAMES E. PEPPER**  
★ ★ ★ ★ ★  
*Bottled-in-Bond*  
KENTUCKY STRAIGHT BOURBON WHISKEY

THIS WHISKEY IS 6 YEARS OLD, 100 PROOF JAMES E. PEPPER & CO., LEXINGTON, KENTUCKY

## The French Look CONTINUED



Broad shoulders and narrow waist are achieved with this pleated raincoat. Such coats look like plain gabardine, thus serve as topcoat or raincoat in clothes-scarce France.



Handbags like this are very expensive item. The shoulder strap is convenient for bicycle riding. This leather one costs \$160. Leather-edged canvas ones are cheaper.



Wooden-soled shoes are outgrowth of wartime leather shortage. High wedge heels also help to set off trim ankles. Bits of leather on the soles silence clapping noise.



# Oscar Levant RECORDS FOR COLUMBIA MASTERWORKS...

## STARS IN WARNER BROS.' PICTURE... *Rhapsody in Blue*



Intimate friend, devoted disciple—no artist is as well qualified to interpret the music of the late great George Gershwin as the brilliant concert pianist, Oscar Levant. His Columbia recording of Gershwin's *Rhapsody in Blue*, with The Philadelphia Orchestra, conducted by Eugene Ormandy (Set X-MX-251, \$2.50) ranks with his superb Columbia Recording of Gershwin's *Concerto in F*, with the Philharmonic-Symphony Orchestra of New York, conducted by Andre Kostelanetz (Set M-MM-512, \$4.50).

See Oscar Levant starring, as Oscar Levant, in Warner Brothers' new motion picture hit, "Rhapsody in Blue," the Story of George Gershwin. Then hear Oscar Levant, the fabulous wit, author, actor, composer, conductor, and concert pianist in his great Gershwin recordings on Columbia Masterworks Records... albums that are destined to become collectors' items for all lovers of great music.

Oscar Levant, like so many other great artists, records *exclusively* on Columbia Masterworks.

### COLUMBIA QUALITY

Surfaces of fine, expensive, long-wearing smooth plastics are laminated to a sturdy, tough core. This exclusive process solves the complex problem of combining highest quality reproduction with strength and durability. On Columbia Great Music Is More Faithfully Yours.

**COLUMBIA**  
*Masterworks*  
**RECORDS**

Trade Marks "Columbia," "Masterworks" and  Reg. U. S. Pat. Off.

Prices shown are exclusive of taxes

Columbia Recording Corporation  A Subsidiary of Columbia Broadcasting System, Inc.

**OTHER GREAT NEW**  
**COLUMBIA**  
*Gershwin*  
**RECORDINGS**



**Andre Kostelanetz** and his Orch. Music of George Gershwin: (*Embraceable You*; *Fascinating Rhythm*; *The Man I Love*; *'S Wonderful*; *Maybe*; *Someone to Watch Over Me*; *Oh, Lady Be Good*; *Soon*.) Set M-MM-559 \$3.50



**Fritz Reiner** conducting the Pittsburgh Symphony Orchestra in a symphonic picture of music from Gershwin's folk opera, *Porgy and Bess* (arranged by Robert Russell Bennett). Set M-MM-572 . . . . . \$3.50



**Artur Rodzinski** conducting the great Philharmonic-Symphony Orchestra of New York in a superb recording of George Gershwin's vivacious symphonic poem, *An American in Paris*. Set X-MX-246 . . . . . \$2.50





**PAINT**  
gives protection  
and beauty...

HANG IT UP!



## ... and the **CAN** gives protection to paint

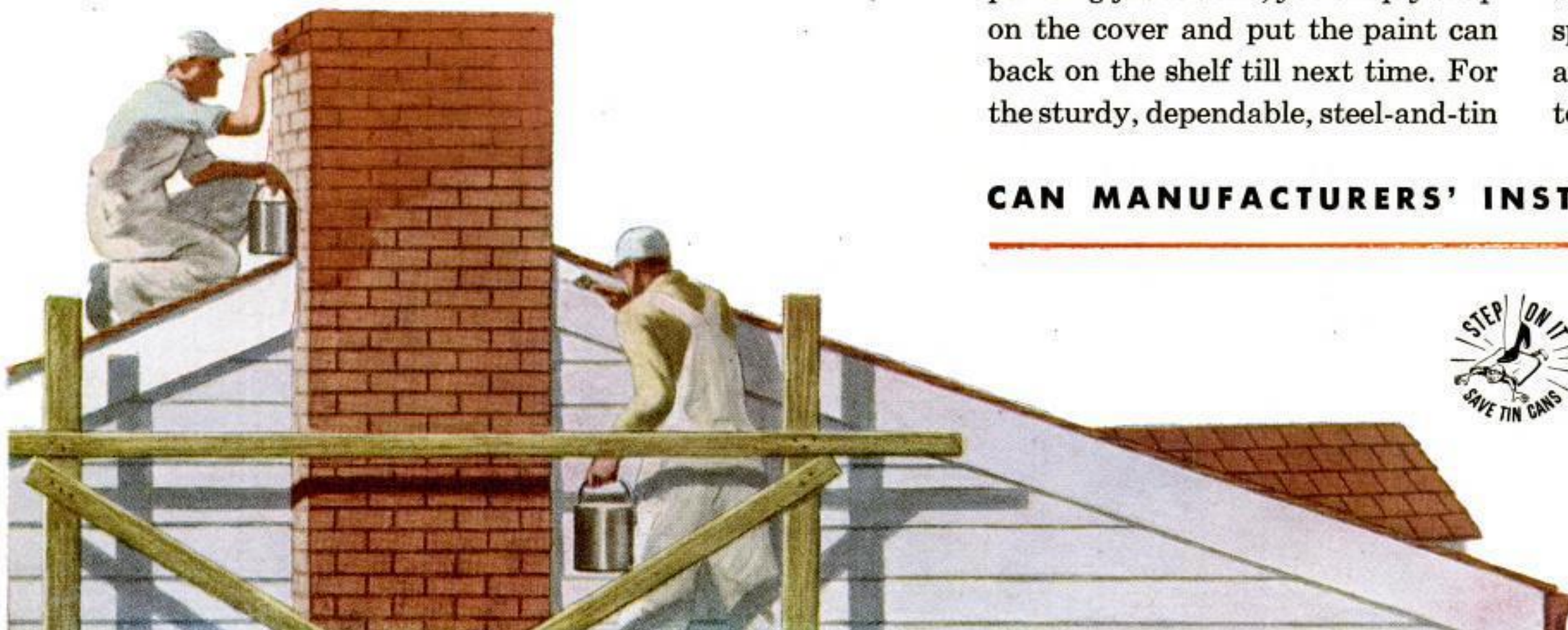
● A coat of paint is a coat of "armor" that beautifies as it protects. And how *easy* it is—even for an "amateur"—to use modern paints that come in cans.

You may paint directly from the can—without pouring from one container to another. Even if you prefer to mix your own colors, you may do so right in the can. And, when your painting job is done, you simply snap on the cover and put the paint can back on the shelf till next time. For the sturdy, dependable, steel-and-tin

can gives protection against drying out, against breakage, dust and dirt.

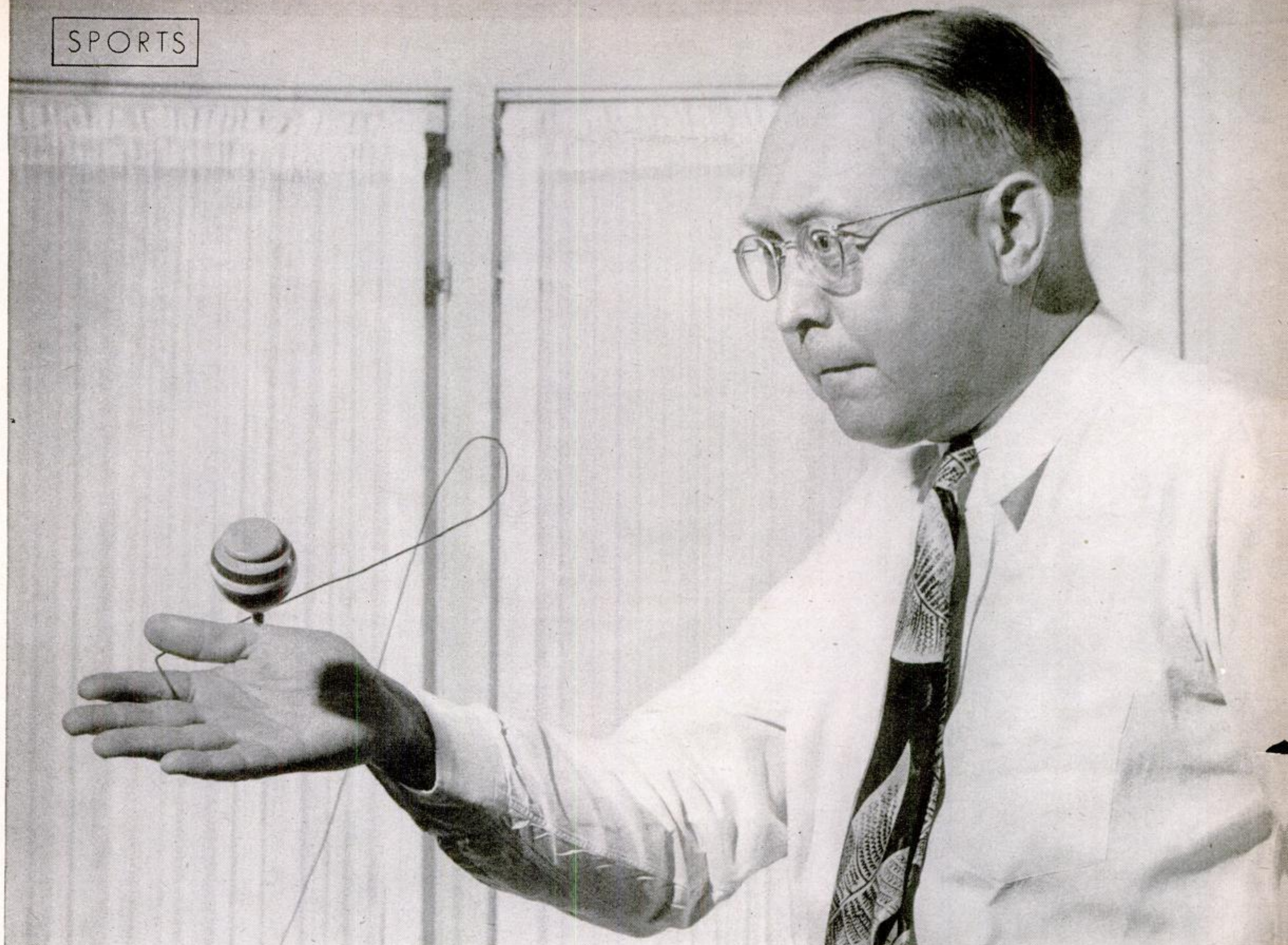
This same lasting protection is afforded many, many products that come in cans—including a long list of fine foods that bring your table an almost endless variety of good things to eat. In fact, more than 2,500 items are normally packed in cans by over 135 different industries—because cans don't shatter, crack, split, or tear; they are easy to carry and convenient to store; so handy to open and to dispose of.

**CAN MANUFACTURERS' INSTITUTE, INC., NEW YORK**



**OUR FIGHTING FRONTS** need thousands of things packed in billions of cans. This means certain civilian products must come to you in substitute containers for the duration. But your Government has wisely provided for home-front nutritional protection by permitting adequate supplies of foods to be packed in cans. Stocks on dealers' shelves are yours to buy freely. Remember to turn in empty food cans for salvage. For information, call your local Salvage Committee.





CARL BERGSTROM WHIPS A SPINNING TOP THROUGH AIR ONTO HIS HAND. THE PROCESS IS CALLED "GAPPING." BERGSTROM IS 47 YEARS OLD. THIS IS HIS HOBBY

## TOP SPINNING

Three grown-up Chicago men turn child's play into skillful sport

The conventional methods of top spinning are nowadays generally confined to youngsters who are content to throw a top and simply watch it spin on the ground. But a far more exciting top-spinning art was practiced a generation ago by more imaginative youngsters on Chicago's South Side. By a delicate process which is called the "jerk system" and is illustrated on the following pages, these youngsters kept their tops spinning in the air almost indefinitely. As a boy Jim Mangan (*below, left*) once performed this

feat for six hours, without stopping for food or drink.

Even now when they are approaching substantial middle age, these accomplished Chicagoans still spin their tops. They regard their hobby with a missionary's zeal. First-class top spinning, they point out, is a sporting challenge to any man's dexterity, offering considerable chance for individual art. A convenient sport, it can be enjoyed at home, indoors and out. Besides, it is very inexpensive. Tops are cheap (4¢) and OPA has pegged the price of a top string at 1¢.

IN SPINNING SESSION MANGAN (LEFT) IS SELF-ASSURED, MARTY O'CONNELL (CENTER) IS BEMUSED, BERGSTROM IS TENSE IN MANEUVER CALLED "COME TO DADDY"





*"You're asking for a Good Sock"*  
WHEN YOU SAY  
**Westminster**



*"You're asking for a Good Sock"*  
WHEN YOU SAY  
**Westminster**



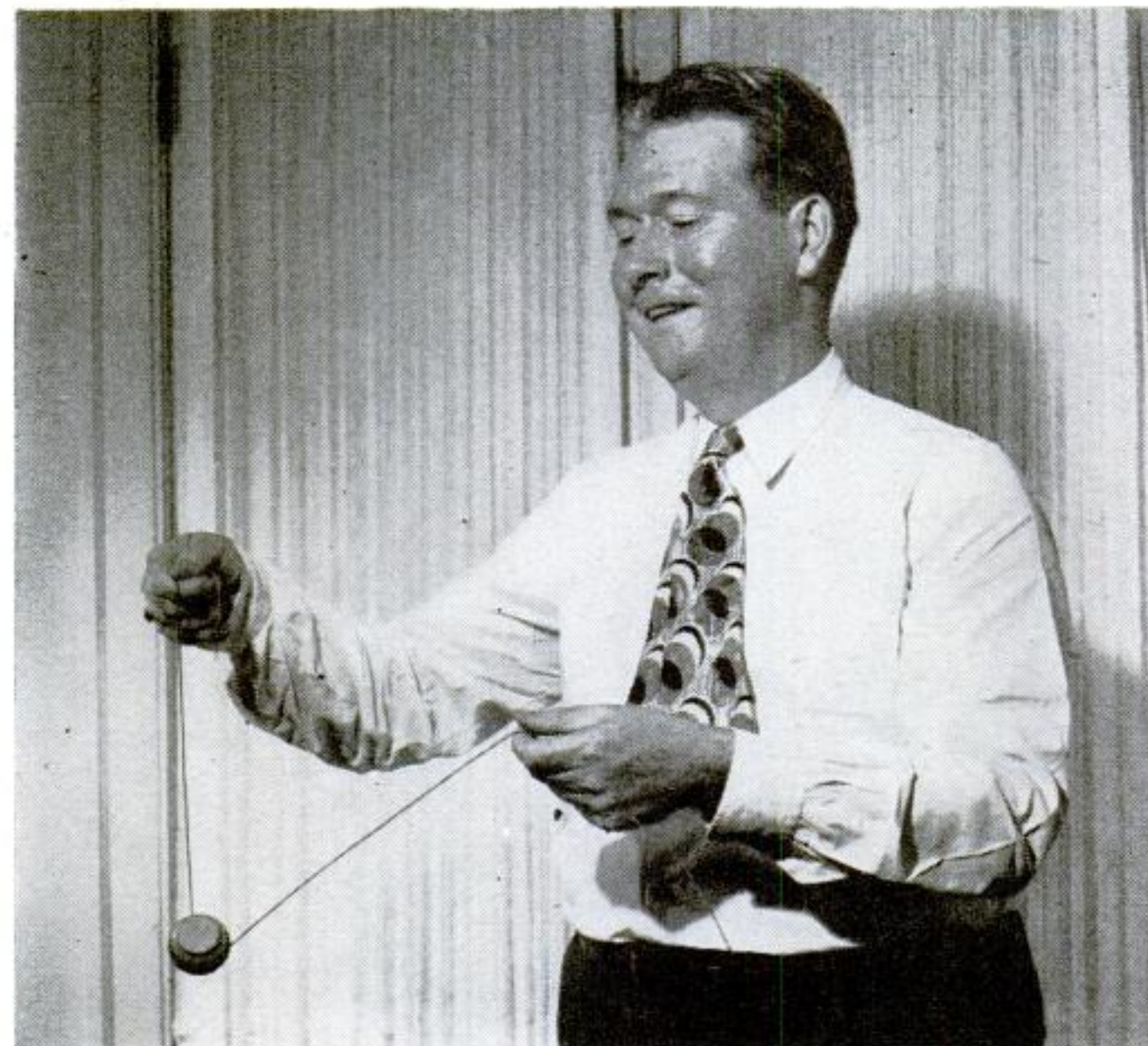
*"You're asking for a Good Sock"*  
WHEN YOU SAY  
**Westminster**



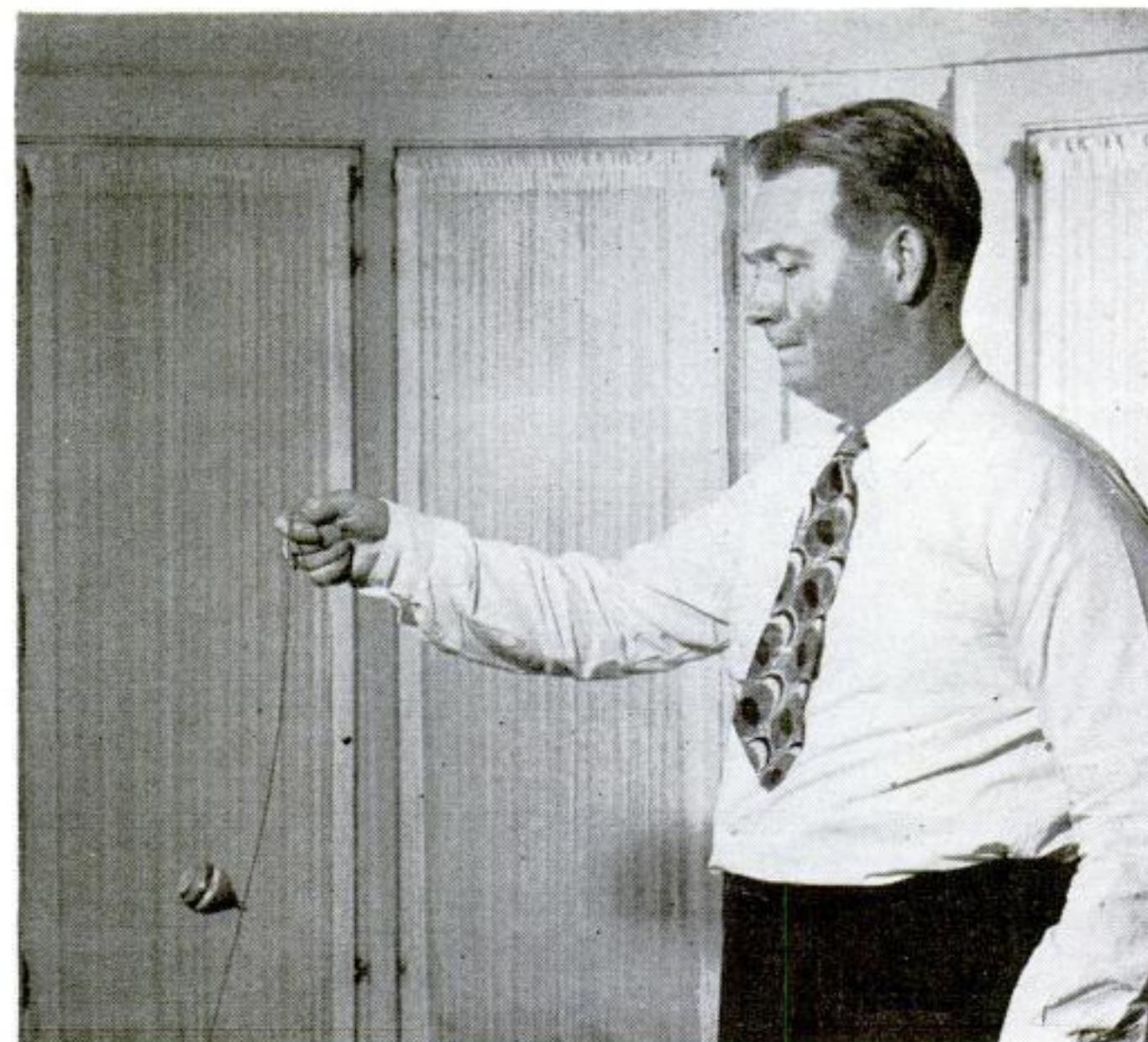
**Westminster**  
FAMOUS AMERICAN  
★ SOCKS ★



The "jerk system" is demonstrated on this page by Jim Mangan, a 48-year-old advertising man. Top is tossed toward ground, jerked quickly to make it come back.



"Yapping" is next step. When top returns, it is caught by the string, allowed to fall again. String loops itself about the spear (tip) as top spins. It is then jerked again.



One-hand winding is most difficult "jerk" maneuver. It is done by snagging string on the spear, letting it fall and wind itself up like a yo-yo. Mangan muffed this one.



# Tough Whiskers + Tender Skin?

Here's Your Way to Shaving Comfort!

If you have a tender skin *plus* wiry whiskers, use amazing Mennen Skin Balm to soothe and cool your hot, smarting face after every shave.

This wonderful after-shave lotion in cream form has astringent action, too, that helps you look fresher, handsomer.

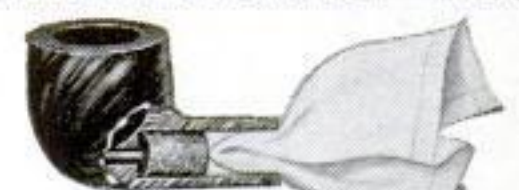
Non-greasy, it disappears, leaving only glorious comfort — and a he-man pleasing outdoor aroma.

Get it for after tomorrow's shave. Lasts months. Only 50¢ at drug stores.

## MENNEN Skin Balm



HANDKERCHIEF TEST



PROVES VITAL ZONE SPOTLESS AND FREE FROM "GOO"—no matter how often you smoke it!

HESSON GUARD  
**MILANO**





*"No wonder we cantered all the way home"*

IF YOU'VE ever enjoyed the grand and glorious refreshment of a Calvert highball, we think you'll know why the gentleman was in a hurry! For Calvert is unmistakably *the real thing* in

whiskey...with a smooth, mellow pre-war quality that simply can't be imitated.

You see, we've blended more fine whiskey in our time than any other distiller in America...and

no one has yet matched our magnificent blend!

So why not trot, canter or gallop off for a Calvert highball right now? But be sure you get Calvert...if you want *the real thing*!

**CLEAR HEADS CHOOSE Calvert**



***It's the Real Thing***

CALVERT DISTILLERS CORP., N.Y.C. BLENDED WHISKEY Calvert "Reserve": 86.8 Proof—65% Grain Neutral Spirits...Calvert "Special": 86.8 Proof—72½% Grain Neutral Spirits

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GENUINE REGISTERED  
**Keepsake**  
DIAMOND RINGS  
Trade Mark Registered



home to my heart  
*Forever*



DALE Set\* 212.50  
Engagement Ring 150.00

HOLLISTER Set\* 900.00  
Engagement Ring 750.00  
Also \$450

LOWELL Set\* 300.00  
Engagement Ring 200.00  
Also \$350

We sell white as well as natural gold  
Rings engraved to show details  
Prices include Federal tax

"Hold me close . . .  
and never let me go. You're home  
to my heart forever . . . and on  
my finger shines the radiant sym-  
bol of our love . . . a Keepsake,  
the most treasured of all diamond  
rings."

Only one diamond in hundreds  
meets the high standards of color,  
cut and clarity which Keepsake  
has maintained through six  
decades. The name "Keepsake"  
in the ring, the nationally estab-  
lished price on the tag, and the  
famous Certificate of Permanent  
Registration and Guarantee en-  
able you to choose any Keepsake  
with confidence in its true quality  
and lasting value. Ask your  
Keepsake Jeweler to show you the  
new Matched Sets . . . from \$100  
to \$3500.

IF YOU ARE OVERSEAS and want to  
send your sweetheart a Keepsake, send  
her a money order and have her write  
to us for the name of the nearest  
Keepsake Jeweler.

Keepsake Diamond Rings, A. H. Pond Co., Inc.  
214 S. Warren St., Syracuse 2, N. Y.

Please send the book, "The Etiquette of the Engagement and Wedding,"  
with supplement on "Wartime Engagements and Weddings," illustrations  
of Keepsake Rings and the name of the nearest Keepsake Jeweler. I  
enclose 10c to cover mailing.

Name.....

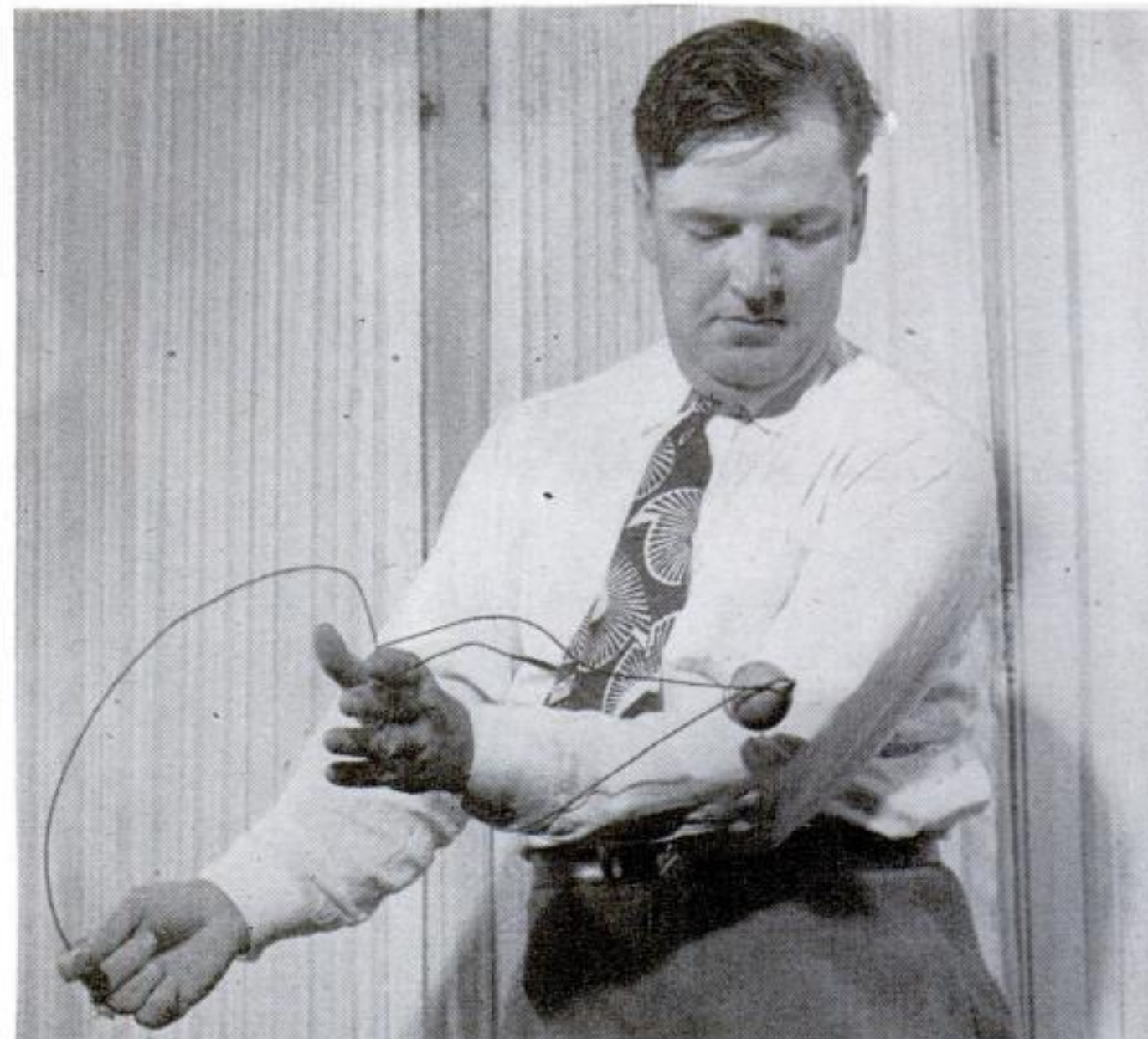
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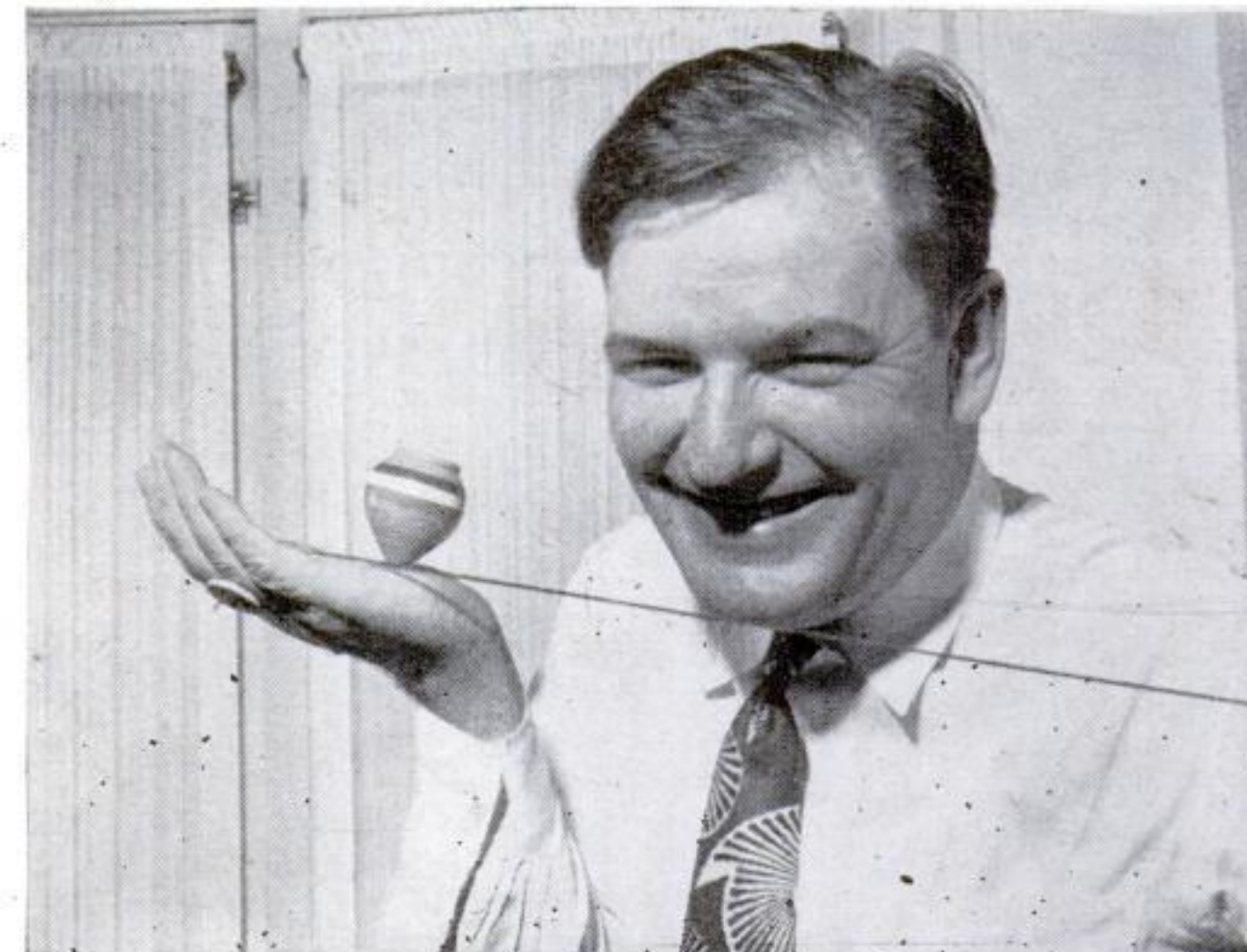
**Top Spinning** CONTINUED



"Around the world," or "Over the world," is performed by Marty O'Connell, 34.  
Trick is to let string wind around top as in yapping, then flick top up around arm.



At the end of loop the top leaves string. O'Connell then whips the string back into  
position, is ready to catch the top on its way down and start yapping all over again.



Spinning on the hand, top can rewind itself. O'Connell is a detective, carries his top  
with him on rounds, wishes kids would take it up again instead of robbing stores.





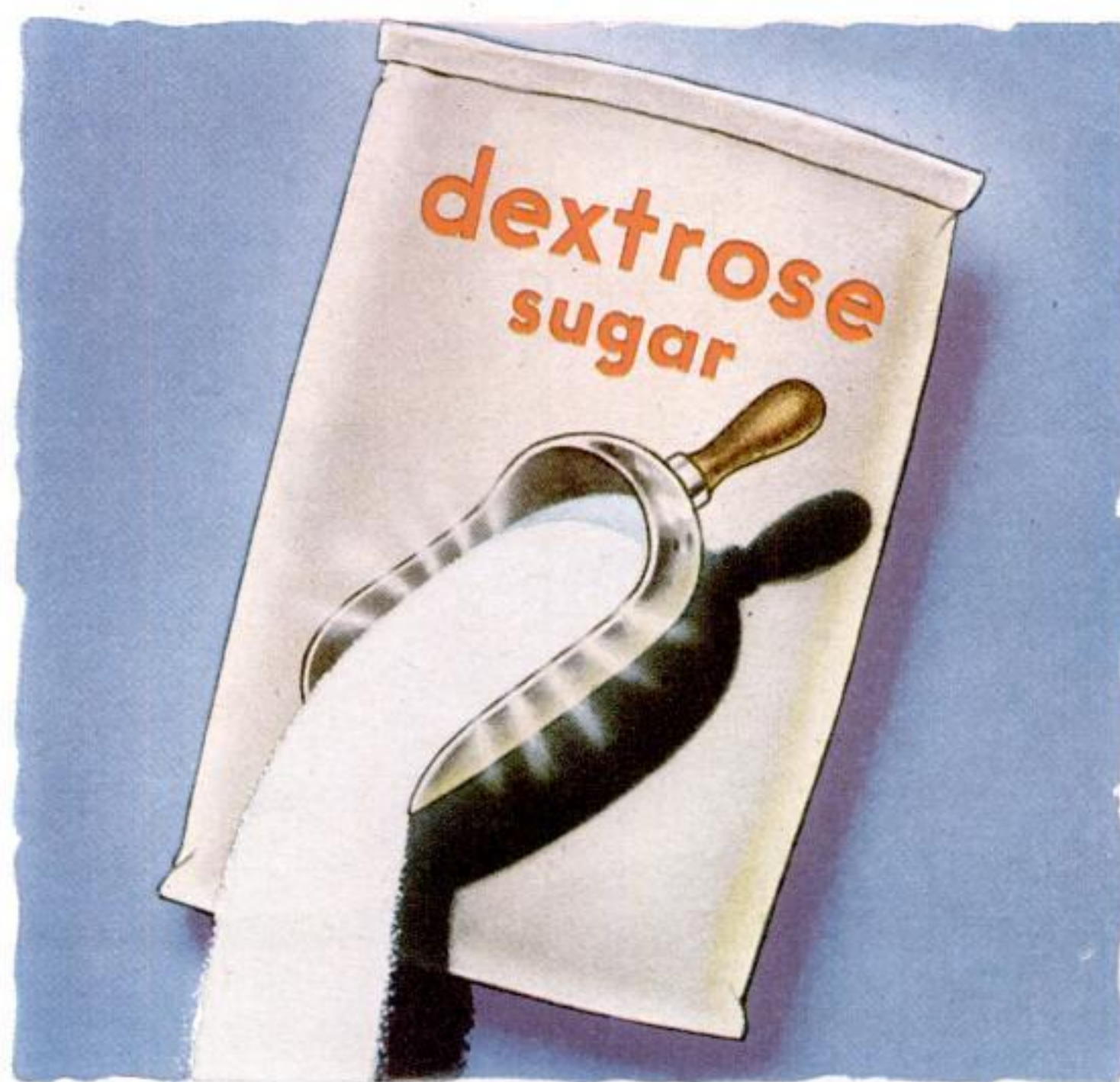
when you think of Cinderella...



...you think of Prince Charming



when you think of energy...



© C. P. R. Co.

...think of dextrose sugar

**D**RUDGERY and dancing are worlds apart in everything but the expenditure of energy. In work or play, awake or asleep, the body expends energy—and uses dextrose sugar to replace it. That's because dextrose is the basic "fuel" sugar that powers all body activity—both physical and mental. All other car-bo-hy-drate foods must be changed into dextrose by digestion before the body can use them.

Pure dextrose is a sparkling white sugar, mildly sweet, cooling and refreshing to taste... it is food energy in its simplest form.

Corn Products Refining Company  
One of the producers of

PURE... SWEET... SPARKLING WHITE  
**dextrose**  
NATURAL QUICK-ENERGY SUGAR

P.S. "dextrose" is *not* a brand name or a trademark... it is the scientific name for the basic fuel sugar of the human body.

**P**RACTICALLY all the dextrose produced in America is used by progressive food manufacturers... to improve the quality, texture and flavor of fine foods... breads, biscuits, candies, cereals, soft drinks, ice creams, table syrups, prepared desserts, jams, jellies, preserves... and many others.

At present, the demand for dextrose far exceeds the supply of this valuable sugar. The several producers of dextrose are working at full capacity... and striving to increase production to fulfill orders for dextrose from thousands of food processors.





"Wow...it's a humdinger  
of a breakfast!"

No wonder he's so happy! They'll be that way at your house, too, when the family sees this luscious breakfast of Nabisco Shredded Wheat on the table.

For Nabisco Shredded Wheat's a bang-up good dish that really rates with everybody—  
young and old. Wonderful, tender-crunchy whole wheat—full of natural flavor!

And every bit as good for you as a bowl of hot cereal! Gives Mother a break, too,  
for there's no fuss or bother in the kitchen.

Be smart at breakfast-time tomorrow! Open up a package of Nabisco Shredded Wheat—  
the original Niagara Falls product that's always a family favorite-for-flavor!

**FULL OF WHOLE-WHEAT GOODNESS, TOO!**



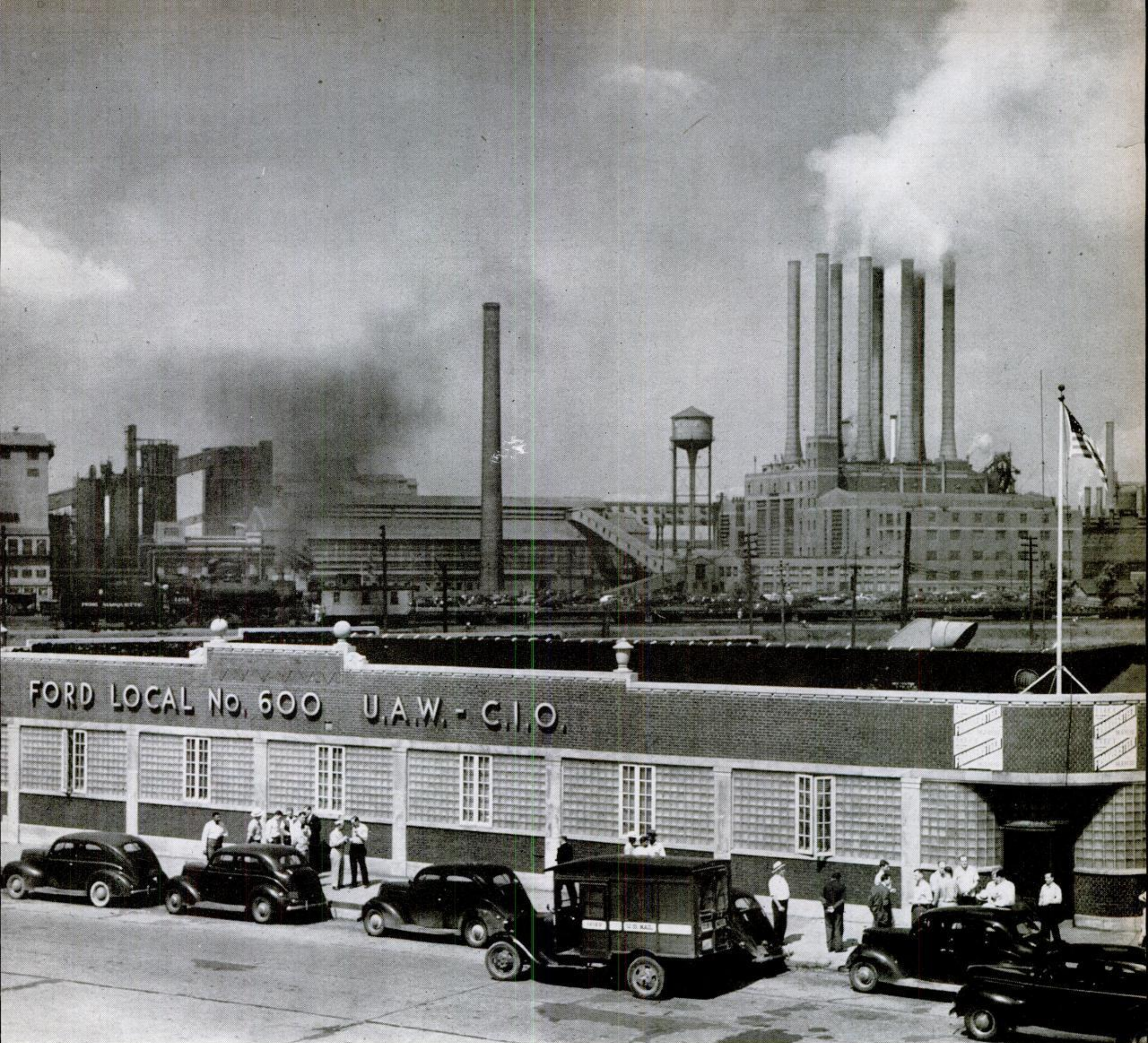
Delicious, ready  
to serve....



yet as nourishing  
as a hot cereal

ANOTHER DELICIOUS PRODUCT BAKED BY **NABISCO**  **NATIONAL BISCUIT COMPANY**





U. A. W.'S FORD LOCAL, SYMBOLICALLY SLEEK AND MODERNISTIC, STANDS ON DEARBORN'S DIX AVENUE UNDER THE STACKS OF HENRY FORD'S HISTORIC "ROUGE"

# U.A.W.

**WORLD'S LARGEST  
UNION IS FACING  
TROUBLED TIMES**

The U. A. W., whose full name is United Automobile, Aircraft and Agricultural Implement Workers of America, a C. I. O. affiliate, is the largest labor union on earth. Its membership of 1,300,000 embraces most of the production workers in three major American industries. It is a young union, born just ten years ago. Yet with war's end it faces problems which would stagger older and more mature unions. U. A. W. is tough. It has had to fight to get where it is. It works in an industry which is also tough and, like the union, more willing to fight than to give in. In the coming months, reconversion will sharpen and embitter the struggle between U. A. W. and industry. At best it will lead to a war of nerves, at worst to strikes and violence.

Already 300,000 U. A. W. members are out of work and members are coming back from the war wanting jobs. Peacetime pay checks are lower. The no-strike pledge, which did not prevent strikes during the war, has now been revoked.

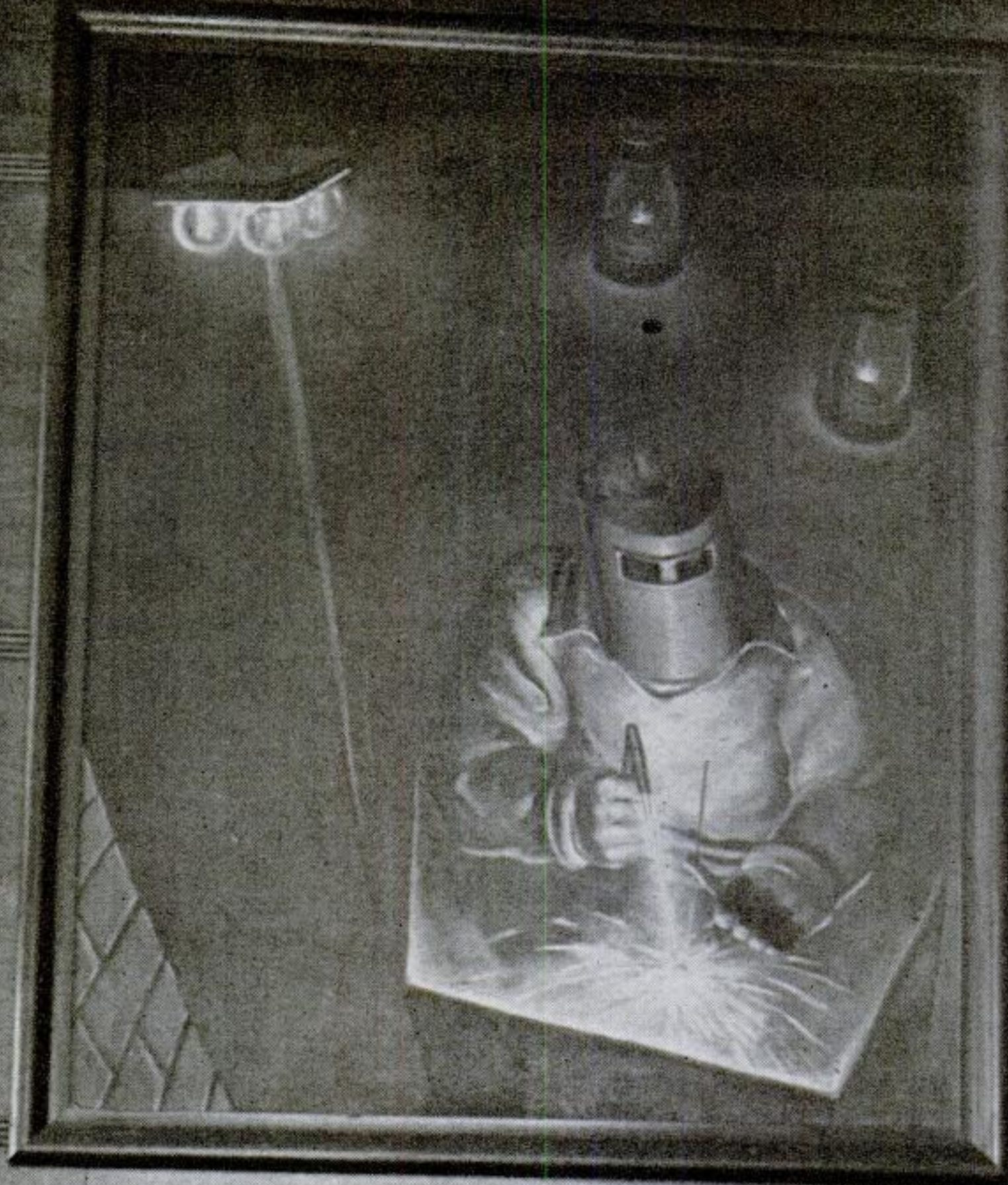
The war benefited the U. A. W. in many ways. But it also interfered with the normal development of union maturity and stability. The no-strike

pledge took away the U. A. W.'s most useful bargaining weapon, the right to strike. Much of the new membership joined only to hold a "duration" job, felt little responsibility toward the union or respect for its discipline.

Even in normal times the U. A. W. itself is diverse and discordant, both in its leaders (*see next page*), and its members, among whom are represented every race and shade of political opinion—Socialists, Ku Kluxers, Catholics, Negroes, Communists, Democrats, Republicans. The union's sharp insistence on democratic expression permits bloc to battle bloc and both to rebel at higher-ups' orders. They often do.

But U. A. W. is a smart, aggressive, ambitious outfit with young, skillful leaders. Although 20% of its membership is in the sure-to-shrink aviation industry, it has a solid core in the sure-to-prosper auto industry. In its ten years, the U. A. W. has raised annual auto wages from \$863.60 to \$2,581.20. It has improved the working conditions on the sometimes frantically paced production lines. And it has firmly established the union shop in an industry which was once firmly open shop.





**U.A.W. BIG FOUR** consists of (left to right) Vice President Richard T. Frankensteen, Secretary-treasurer George F. Addes, President R. J. Thomas, Vice President Walter P. Reuther.

**FRANKENSTEEN**, 38, is a native Detroit who was an honor student at University of Dayton, became a Dodge plant trimmer. Burly, good-natured, he headed U.A.W.'s organizing of aircraft workers and he has many interests besides his union. At present he is running for mayor

of Detroit and has written several operettas, one of which, *Gypsy Moon*, he had considered producing earlier this year. He sides with Addes, whose lieutenant he is, in the union factional fights.

**ADDIS** is the union's left-wing leader. Only 35, he was born in LaCrosse, Wis. and became a metal finisher in the Willys-Overland plant in Toledo after three years of high school. He is a faithful Catholic, shy, quiet and hard-working.

**THOMAS**, at 45, is the oldest of U.A.W.'s hierarchy.

A college athlete, "Tommy," as the membership calls him, was a telephone engineer, then an auto welder—note his office painting. He usually maintains a compromise position above the warring factions.

**REUTHER**, the union's "one-man brain trust" and author of the Reuther Plan for war production, is 38. A onetime Ford diemaker, he leads the union's right wing in opposition to Addes and heads its General Motors department. Imaginative, personable, he is generally credited with being the main shaper of U.A.W. long-range strategy.



# BORN IN VIOLENCE, THE AUTO UNION IS STILL TURBULENT



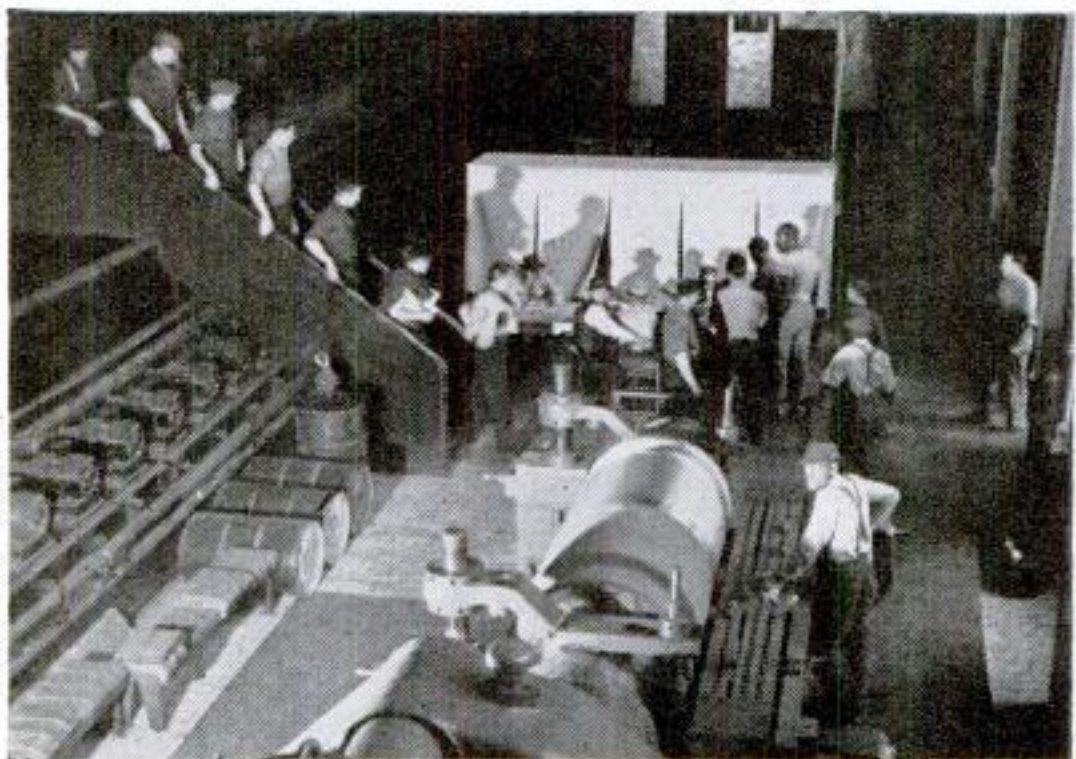
**SIT-DOWN STRIKE** was U. A. W.'s best weapon in 1937 when it began organizing the long-open-shop auto companies. The union sits down in General Motors plant in Flint.



**SLUGGED UNIONISTS** Reuther and Frankenstein were beaten up in 1937 organizing campaign by Ford factory police.



**SLUGGING UNIONISTS** attack a Ford worker who is trying to enter plant during the 1941 strike that organized Ford, last of motordom's Big Three to capitulate to the U. A. W.



**NLRB ELECTIONS**, such as this one in the Rouge plant which sealed U. A. W.'s Ford victory, replaced the sit-down strike and much, although not all, of the picket-line violence.



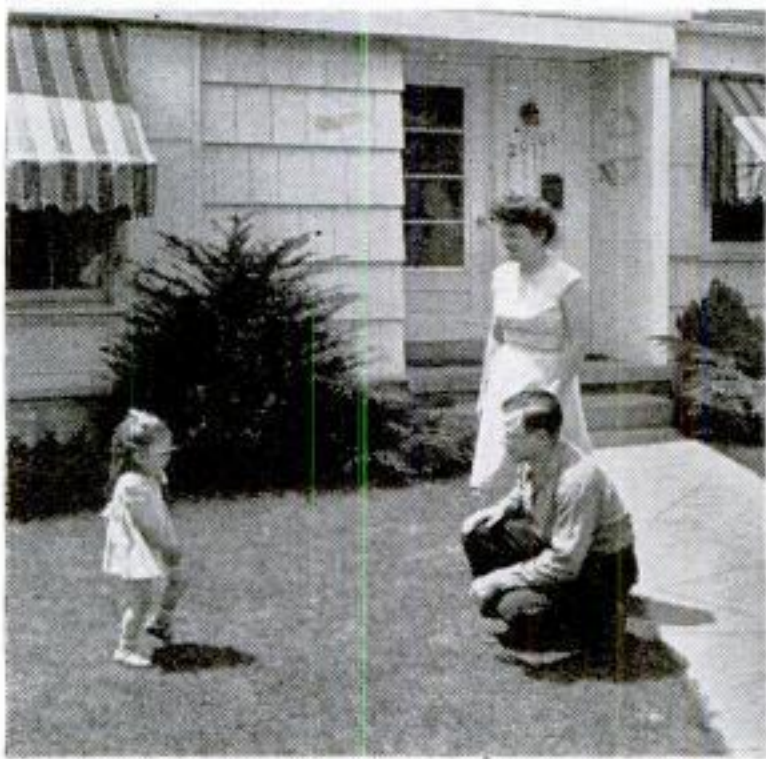
**UNION LEAFLETS** and newspapers indoctrinate its members. Some employers charge they contain lies, stir class hatred.



**DUES** of \$1 per month are paid in Detroit Local 142. Treasurer Addes has campaigned for increasing the modest dues without success. Result: U. A. W.'s cash reserves are small.



**RIGHT-WING LEADER** Reuther holds union politics meeting. He has two brothers in U. A. W., Victor, chief war-policy planner, and Roy, an international field representative.



**MODEST HOME** where Reuther relaxes with family typifies small U. A. W. salaries. He gets \$7,000; Thomas, \$9,000.



**LEFT-WING LEADER** Addes (right) discusses mayoral campaign with international representatives. Some feel Addes knows more about unionism than any other U. A. W. chief.



**LOCAL PRESIDENTS** gather at a meeting to which they had invited the top union officers to air their many complaints.



**FORD LOCAL'S GENERAL COUNCIL** meets monthly to take up its business. Typical of U. A. W. meetings, large or small, the discussion is loud, hot and pungent. Members are anything but "controlled" by officers they elect.



**STRIKER** Raymond Lingeman, 45, who has three sons in Army, went out in war-time because "the bosses didn't play fair."

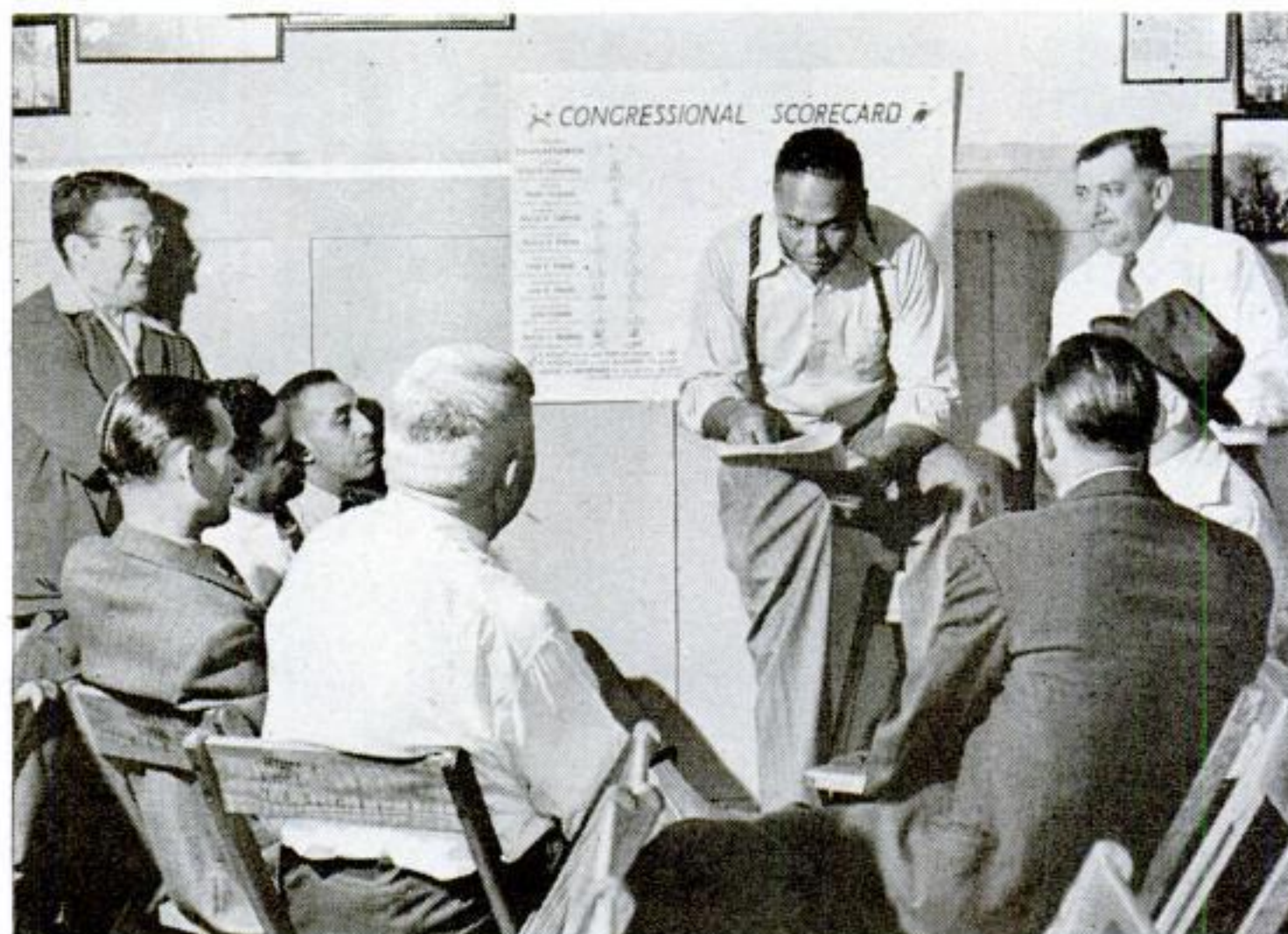


# MEETINGS FORM A BIG PART OF THE U.A.W.'S VARIED LIFE

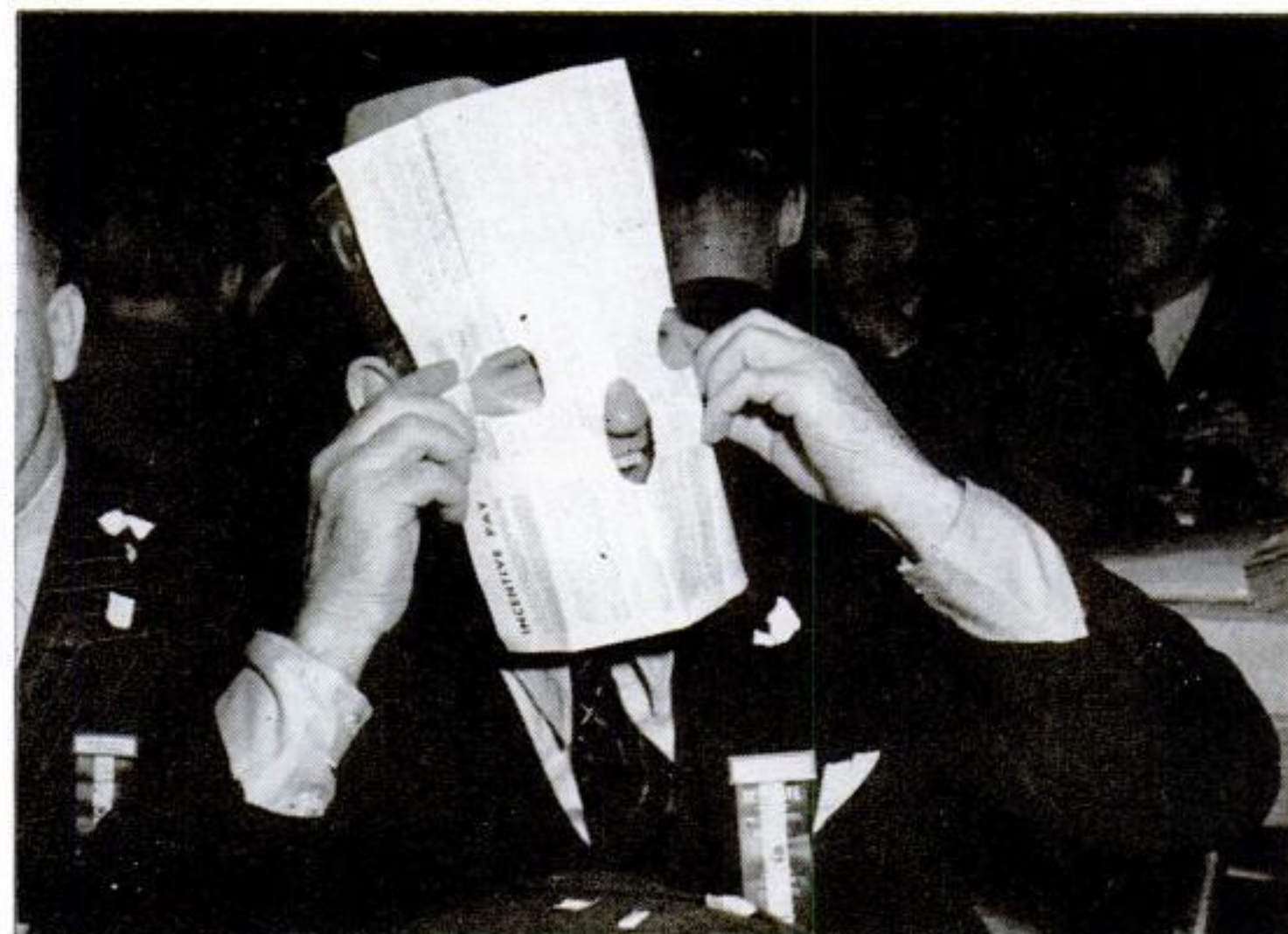


**UNION AND MANAGEMENT** settle grievances before impartial umpire, chosen and paid by both. Here, in a Chrysler case, the umpire is Attorney David A. Wolff (center), flanked by company (left) and union representatives. Wolff gets \$5,000

a year for his work. Before coming to this highest court an effort has been made to settle the case at three lower levels. But often the workers, distrustful of the company or their own leadership, have struck before grievance procedure is invoked.



**NEGRO** President Hodges Mason of Local 208 illustrates the U.A.W.'s rigid insistence that no color lines be drawn in union affairs or at work. Here he talks with U.A.W. men recently made foremen and thus barred from U.A.W. membership.



**KKK** influence, here being jeered by a delegate to a U.A.W. convention at which Klan-robed figures demonstrated, is relatively small in the union. It occasionally manifests itself as in the "hate strikes" which preceded the 1943 Detroit race riot.



**COMMUNIST** element is especially noticeable in Local 155, whose President John A. Anderson is addressing a meeting. Red influence has never dominated the auto union but perennially has been an obstreperous and party-line-following minority.



**CATHOLIC** workers, here listening to an archdiocesan labor institute lecture by Father Raymond S. Clancy, are one of the U.A.W.'s major groups. Organized and trained by liberal churchmen, they oppose communism within their various unions.

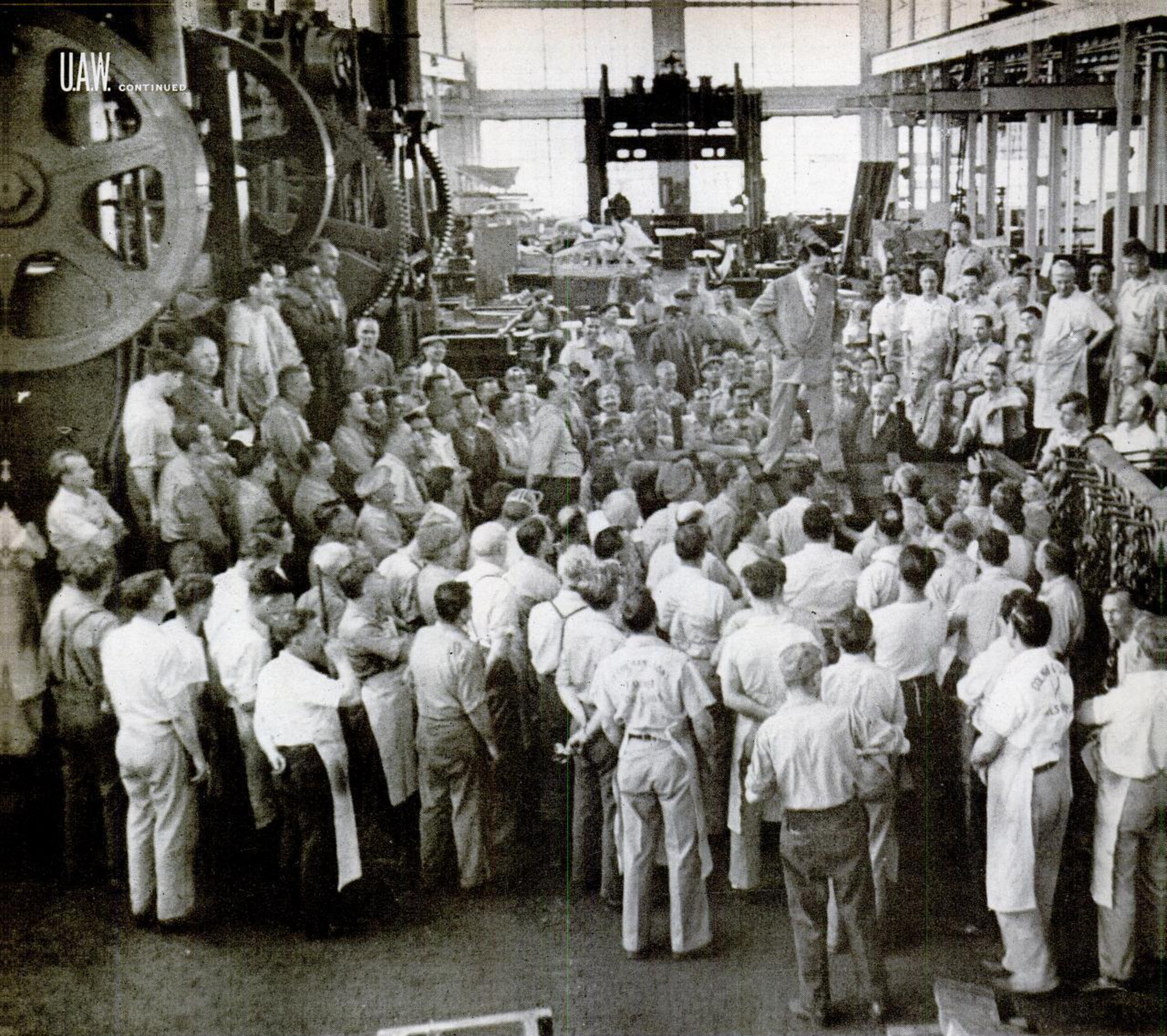




**THE FLYING SQUADRONS** of the U.A.W., whose shirted members here watch a Frankenstein political rally (see next page) in Detroit, were once the shock troops in picket-line battles with scabs, factory police. They are working unionists of above-aver-

age brawn and bellicosity. During recent peaceful years they have sometimes wanted to stir up trouble, have been a headache to high union officials. Should Detroit's labor situation erupt into violence, as many fear, the flying squads will again be very busy.





**CAMPAIGNING FOR ELECTION** as Detroit's mayor, U. A. W. Vice President Frankenstein addresses a lunch-

period meeting in the Coleman tool and die plant. He says he will be all Detroit's mayor, not the U. A. W.'s, promises

a clean, progressive administration. He won the primary, 82,936 to 68,754. Many U. A. W. members do not like



**WARTIME IMMIGRANTS** to Detroit from Forrest City, Ark. are U. A. W. members Roosevelt and Magnolia Gordon, with daughter. They say they will not return South.



**RETURNED VETERAN** is twice-wounded Otto Benson, steamfitter, ex-Seabee and U. A. W. member. Veterans' seniority is a major dispute between union, managements.



**UNEMPLOYED** seek jobs at one of the Detroit area's 12 WMC offices. All regularly have lineups. Meanwhile workers get \$20 weekly unemployment compensation.





Frankenstein, yet the union has united in considerable degree to back him, his followers hoping to elect him mayor, his opponents hoping to boost him out of the union.



**WARTIME EMIGRANTS** from Detroit are the Charles Coxes who, unlike the Gordons, are returning to their native Williamsburg, Ky. after being laid off when Willow Run was cut back. Cases like this are reducing the U. A. W.'s membership and income.



**FRANKENSTEIN PROMISES CADILLAC SQUARE RALLY BETTER HOUSING, PARKS**

## ITS POLITICS ARE AGGRESSIVE AND ITS PROBLEMS COMPLICATED

**L**ike other C. I. O. unions, the U. A. W. uses political action to gain its ends. In Detroit its political activity is so aggressive that it may elect a U. A. W. vice president, Richard Frankenstein, mayor. In the primaries last month Frankenstein ran far ahead, has at least an even chance of election this fall.

Detroit is, however, a focus of union problems which cannot be solved by political action. Many immigrant laborers to the war plants do not want to go home even when their jobs disappear. Workers who got \$1.30 an hour for war work grumble at 90¢ an hour for peace work. Some 400,000 U. A. W. members in the armed services are coming back for jobs. New workers back from service with seniority credit accumulated while at war will also want jobs, which they will get only at the expense of other workers. The stresses this situation sets up can be dangerous. They will certainly be troublesome even next spring, when the auto industry expects to reach new highs in peacetime employment.



**POLYGLOT CHARACTER** of the union is mirrored by the faces of this Frankenstein audience. Their approach to problems facing their union is reflected by their placards. Nearly all U. A. W. factions have one thing in common; uninhibited articulateness.





**BELLE ISLE**, park in the Detroit River, is the playground for Detroit's working families like that of Daniel Campbell, Ford ironworker. Huge union picnics are held here.



**HEALTH INSTITUTE**, which gives members diagnostic services and investigates unhealthy working conditions, is a mansion once owned by Edsel Ford. It cost \$100,000.

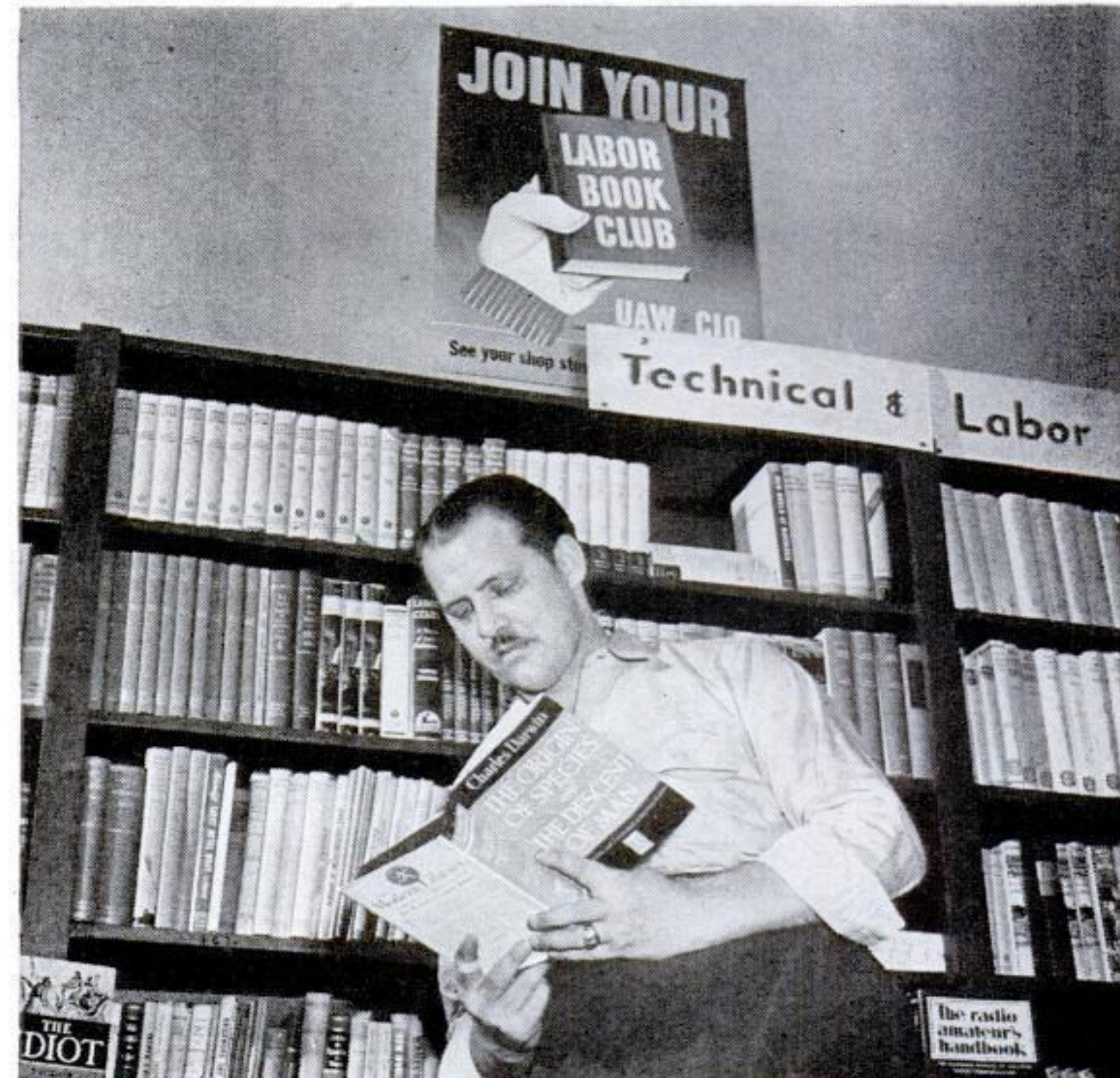
## IT WANTS MORE PAY, MORE SECURITY AND MORE RECOGNITION

The U.A.W. has grown big enough to buy a building right across the street from the General Motors Building in Detroit and install its President Thomas in impressive headquarters there (*opposite page*). But it is not a rich union. Its dues are \$1 a month, which is low. Its reserves are only \$2,600,000, compared to the reserves of \$9,700,000 set aside by a union like A. F. of L.'s machinists (680,000 members).

U.A.W. makes its money go a long way. It sets up social, medical and educational benefits. It is now campaigning for a 30% general wage increase over present levels. It favors a guaranteed annual wage for its members, now victims of seasonal employment. In its high ranks are men like Reuther, who believes labor must more and more be given a voice in long-range economic planning of the country.

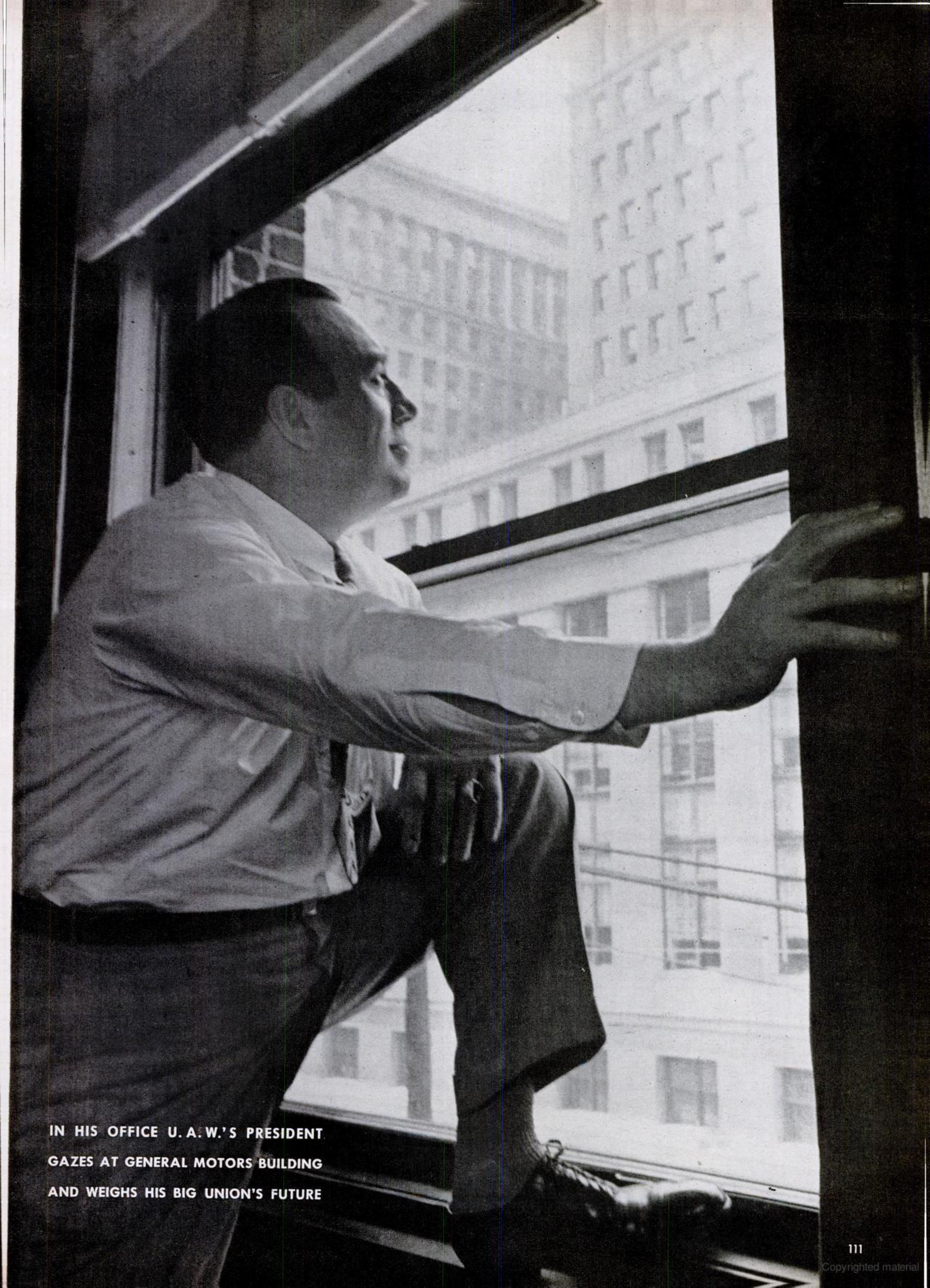


**COOPERATIVE GROCERIES** like this one in Inkster, Detroit suburb, are encouraged by the U. A. W., which does not run them but teaches members how to organize them.



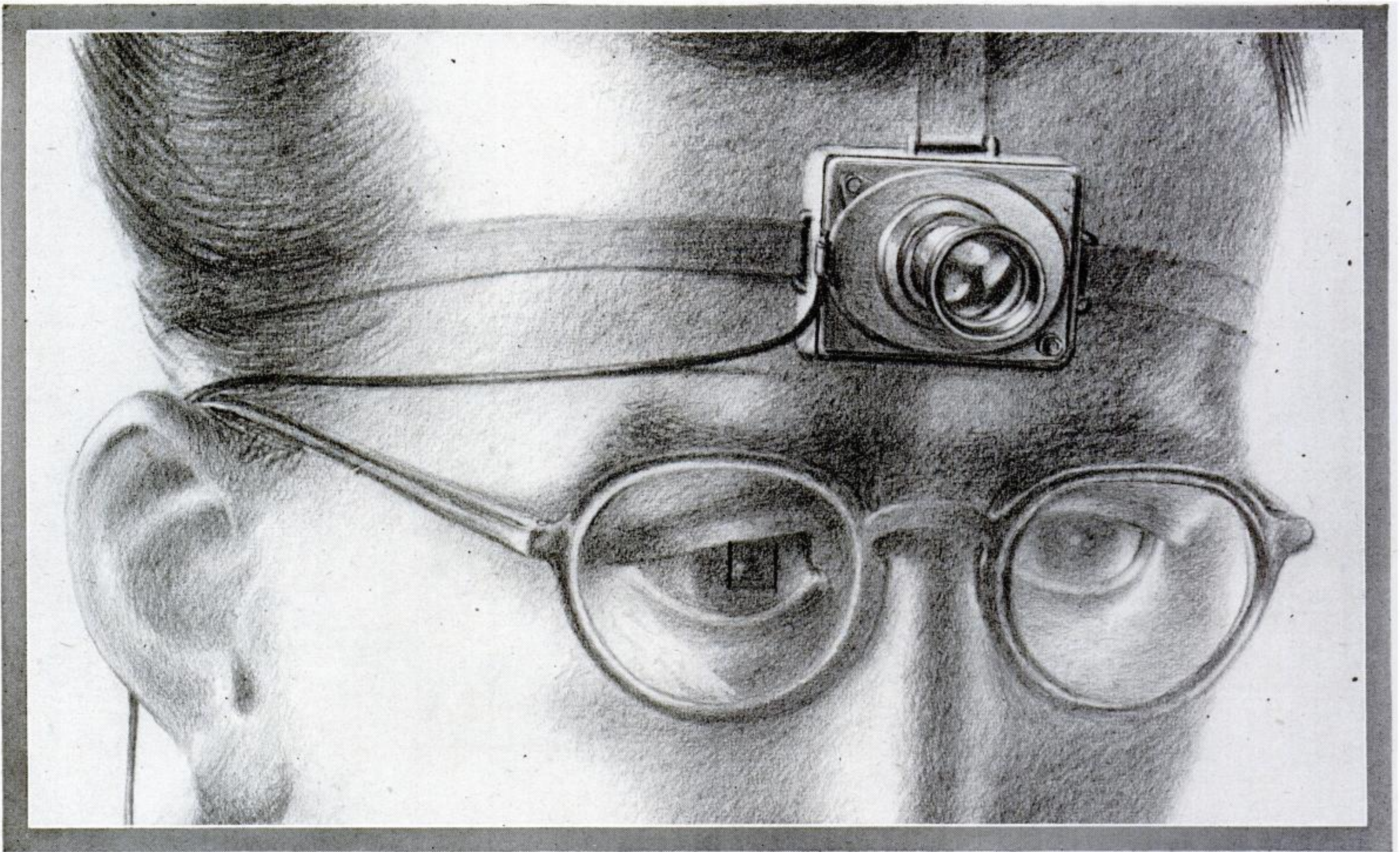
**BOOKSTORE** run by the U. A. W. was opened last year, offers a wide selection of books and gives a 20% discount to members. Its stock favors labor and sociological treatises.





IN HIS OFFICE U. A. W.'S PRESIDENT  
GAZES AT GENERAL MOTORS BUILDING  
AND WEIGHS HIS BIG UNION'S FUTURE





A SCIENTIST OF THE FUTURE RECORDS EXPERIMENTS WITH A TINY CAMERA FITTED WITH UNIVERSAL-FOCUS LENS. THE SMALL SQUARE IN THE EYEGLASS AT THE LEFT SIGHTS THE OBJECT

# AS WE MAY THINK

A TOP U. S. SCIENTIST FORESEES A POSSIBLE FUTURE WORLD  
IN WHICH MAN-MADE MACHINES WILL START TO THINK

by VANNEVAR BUSH

DIRECTOR OF THE OFFICE OF SCIENTIFIC RESEARCH AND DEVELOPMENT

Condensed from the *Atlantic Monthly*, July 1945

**T**his has not been a scientists' war; it has been a war in which all have had a part. The scientists, burying their old professional competition in the demand of a common cause, have shared greatly and learned much. It has been exhilarating to work in effective partnership. What are the scientists to do next?

For the biologists, and particularly for the medical scientists, there can be little indecision, for their war work has hardly required them to leave the old paths. Many indeed have been able to carry on their war research in their familiar peacetime laboratories. Their objectives remain much the same.

It is the physicists who have been thrown most violently off stride, who have left academic pursuits for the making of strange destructive gadgets, who have had to devise new methods for their unanticipated assignments. They have done their part on the devices that made it possible to turn back the enemy. They have worked in combined effort with the physicists of our allies. They have felt within themselves the stir of achievement. They have been part of a great team. Now one asks where they will find objectives worthy of their best.

\* \* \*

There is a growing mountain of research. But there is increased evidence that we are being bogged down today as specialization extends. The investigator is staggered by the findings and conclusions of thousands of other workers—conclusions which he cannot find time to grasp, much less to remember, as they appear. Yet specialization becomes increasingly necessary for prog-

ress, and the effort to bridge between disciplines is correspondingly superficial.

Professionally our methods of transmitting and reviewing the results of research are generations old and by now are totally inadequate for their purpose. If the aggregate time spent in writing scholarly works and in reading them could be evaluated, the ratio between these amounts of time might well be startling. Those who conscientiously attempt to keep abreast of current thought, even in restricted fields, by close and continuous reading might well shy away from an examination calculated to show how much of the previous month's efforts could be produced on call.

Mendel's concept of the laws of genetics was lost to the world for a generation because his publication did not reach the few who were capable of grasping and extending it. This sort of catastrophe is undoubtedly being repeated all about us as truly significant attainments become lost in the mass of the inconsequential.

Publication has been extended far beyond our present ability to make real use of the record. The summation of human experience is being expanded at a prodigious rate, and the means we use for threading through the consequent maze to the momentarily important item is the same as was used in the days of square-rigged ships.

But there are signs of a change as new and powerful instrumentalities come into use. Photocells capable of seeing things in a physical sense, advanced photography which can record what is seen or even what is not, thermionic tubes capable of controlling potent forces under the guidance of



less power than a mosquito uses to vibrate its wings, cathode-ray tubes rendering visible an occurrence so brief that by comparison a microsecond is a long time, relay combinations which will carry out involved sequences of movement more reliably than any human operator and thousands of times as fast—there are plenty of mechanical aids with which to effect a transformation in scientific records.

Machines with interchangeable parts can now be constructed with great economy of effort. In spite of much complexity, they perform reliably. Witness the humble typewriter, or the movie camera, or the automobile. Electrical contacts have ceased to stick when thoroughly understood. Note the automatic telephone exchange, which has hundreds of thousands of such contacts, and yet is reliable. A spider web of metal, sealed in a thin glass container, a wire heated to brilliant glow—in short, the thermionic tube of radio sets is made by the hundred million, tossed about in packages, plugged into sockets—and it works! Its gossamer parts, the precise location and alignment involved in its construction, would have occupied a master craftsman of the guild for months; now it is built for 30¢. The world has arrived at an age of cheap, complex devices of great reliability, and something is bound to come of it.

A record, if it is to be useful to science, must be continuously extended, it must be stored and, above all, it must be consulted. Today we make the record conventionally by writing and photography, followed by printing; but we also record on film, on wax disks and on magnetic wires. Even if utterly new recording procedures do not appear, these present ones are certainly in the process of modification and extension.

#### NEW WAYS TO EXTEND THE RECORD—

#### THE CYCLOPS CAMERA AND DRY PHOTOGRAPHY

Certainly progress in photography is not going to stop. Faster material and lenses, more-automatic cameras, finer-grained sensitive compounds to allow an extension of the minicamera idea are all imminent. Let us project this trend ahead to a logical, if not inevitable, outcome. The camera hound of the future wears on his forehead a lump a little large than a walnut. It takes a picture three millimeters square, later to be projected or enlarged. The lens is of universal focus, down to any distance accommodated by the unaided eye, simply because it is of short focal length. There is a built-in photocell on the walnut such as we now have on at least one camera which automatically adjusts exposure for a wide range of illumination. There is film in the walnut for a hundred exposures and the spring for operating its shutter and shifting its film is wound once for all when the film clip is inserted. It produces its results in full color. It may well be stereoscopic and record with two spaced glass eyes, for striking improvements in stereoscopic technique are just around the corner.

The cord which trips its shutter may reach down a man's sleeve within easy reach of his fingers. A quick squeeze, and the picture is taken. On a pair of ordinary glasses is a square of fine lines near the top of one lens, where it is out of the way of ordinary vision. When an object appears in that square, it is lined up for its picture. As the scientist of the future moves about the laboratory or the field, every time he looks at something worthy of the record, he trips the shutter and in it goes, without even an audible click. Is this all fantastic? The only fantastic thing about it is the idea of making as many pictures as would result from its use.

Will there be dry photography? It is already here in two forms. There have long been films impregnated with diazo dyes which form a picture without development, so that it is already there as soon as the camera has been operated. An exposure to ammonia gas destroys the unexposed dye, and the picture can then be taken out into the light and examined. The process is now slow, but someone may speed it up, and it has no grain difficulties such as now keep photographic researchers busy.

#### REDUCING THE WRITTEN RECORD

#### TO MANAGEABLE SIZE—MICROPHOTOGRAPHY

Like dry photography, microphotography still has a long way to go. The basic scheme of reducing the size of the record, and examining it by projection rather than directly, has possibilities too great to be ignored. The combination of optical projection and photographic reduction is already producing some results in microfilm for scholarly purposes, and the potentialities are highly suggestive. Today, with microfilm, reductions by a linear factor of 20 can be employed and still produce full clarity when the material is re-enlarged for examination.

Assume a linear ratio of 100 for future use. Consider film of the same thickness as paper, although thinner film will certainly be usable. Even under these conditions there would be a total factor of 10,000 between the bulk of the ordinary record on books, and its microfilm replica. The *Encyclopaedia Britannica* could be reduced to the volume of a matchbox. A library of a million volumes could be compressed into one end of a desk. If the human race has produced since the invention of movable type a total record, in the form of magazines, newspapers, books, tracts, advertising blurbs, correspond-



Dr. Vannevar Bush is head of the Office of Scientific Research and Development, which marshaled the scientific brains of the U.S. in the service of the war. As such he has performed one of the greatest, though most secret, jobs of the war, as important in its sphere as that of the Army chief of staff. Under his direction 6,000 scientists worked on such projects as the development of radar and the atomic bomb.

In the July issue of the *Atlantic Monthly* Dr. Bush published an article in which he set a great task for men of science in the peacetime world. Man has piled up a staggering body of knowledge—so staggering, in fact, that men of learning have great difficulty in finding and using the parts they want. It is the task of science, Dr. Bush says, to make this store of knowledge more available, to aid the human memory. Says the *Atlantic*, "Like Emerson's famous address of 1837 on 'The American Scholar,' this paper by Dr. Bush calls for a new relationship between thinking man and the sum of our knowledge."

LIFE is indebted to the editors of the *Atlantic Monthly* for permission to bring a condensed version of this important article to its larger audience.

#### WHAT DR. BUSH FORESEES

##### Cyclops Camera

Worn on forehead, it would photograph anything you see and want to record. Film would be developed at once by dry photography.

##### Microfilm

It could reduce *Encyclopaedia Britannica* to volume of a matchbox. Material cost: 5¢. Thus a whole library could be kept in a desk.

##### Vocoder

A machine which could type when talked to. But you might have to talk a special phonetic language to this mechanical supersecretary.

##### Thinking machine

A development of the mathematical calculator. Give it premises and it would pass out conclusions, all in accordance with logic.

##### Memex

An aid to memory. Like the brain, Memex would file material by association. Press a key and it would run through a "trail" of facts.

CONTINUED ON NEXT PAGE



## Do you believe in spanking a child?



WHEN HE THROWS A TANTRUM?...A good wallop won't help, if the tantrum is caused by *fright*! If your child shows signs of fear when you try to give him a laxative—be careful! It may be that the medicine tastes bad or that it upsets him afterwards. You'll have to admit, yourself, that

**SOME LAXATIVES ARE  
TOO STRONG!**



WHEN HE SULKS?... Before you reach for the hair-brush, remember that sulking is often a child's way of avoiding something unpleasant—like the "sissy" laxative some parents give their children. Unfortunately, some of these supposedly *mild* medicines may upset a child, without giving the relief that's needed. The fact is that

**SOME LAXATIVES ARE  
TOO MILD!**



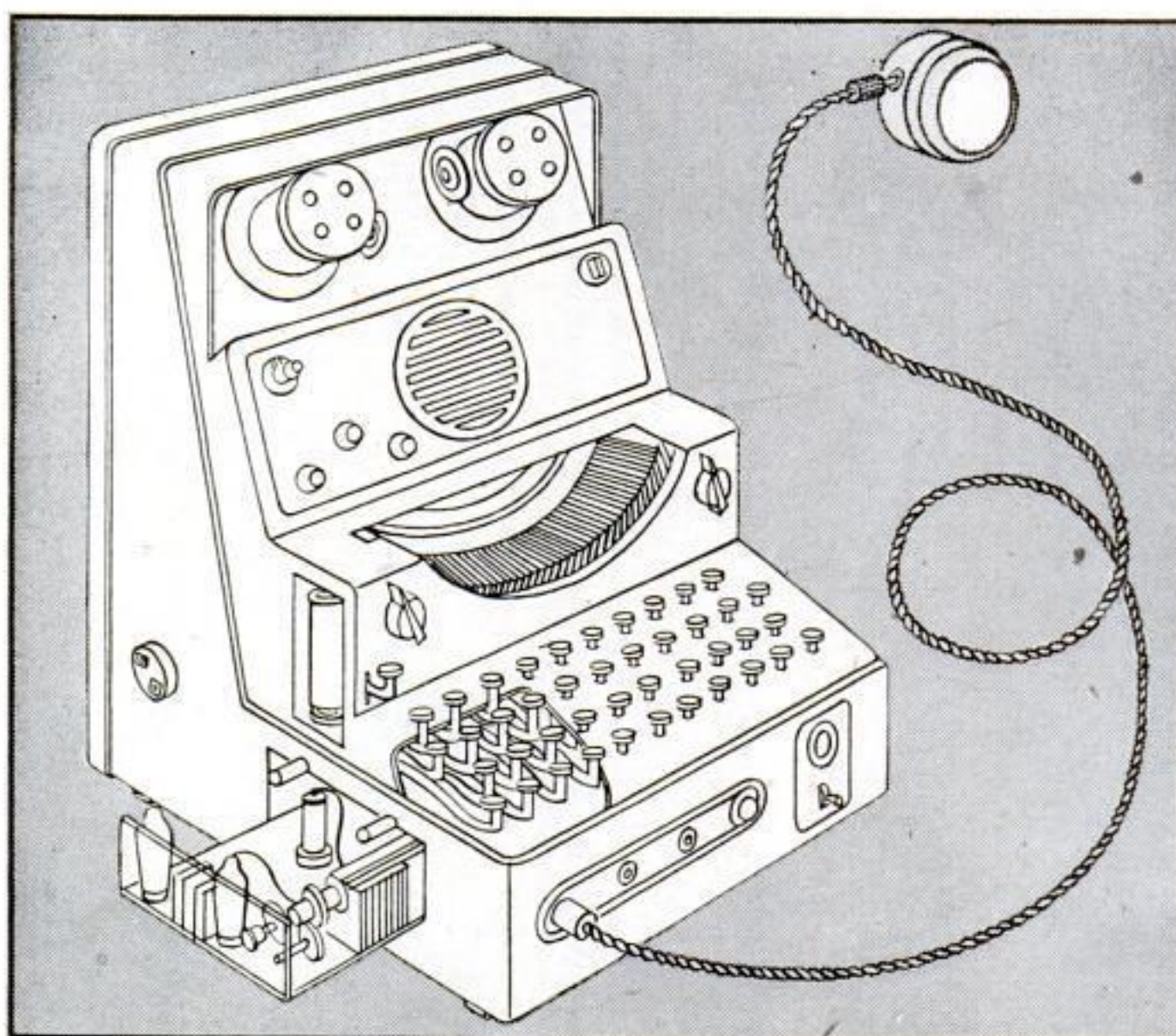
SPANKING WON'T BE NECESSARY...if you treat the youngsters to Ex-Lax when they need a laxative. Children really enjoy taking Ex-Lax, because it tastes so good...just like fine chocolate! And mothers like the way Ex-Lax acts—effective, but, oh so gentle! Not too strong, not too mild...

**EX-LAX IS THE  
HAPPY MEDIUM!**

*As a precaution use only as directed.*

**EX-LAX**  
THE "HAPPY MEDIUM" LAXATIVE

10c and 25c at all drug stores



**SUPERSECRETARY OF THE COMING AGE**, the machine contemplated here would take dictation, type it automatically and even talk back if the author wanted to review what he had just said. It is somewhat similar to the Voder seen at New York World's Fair. Like all machines suggested by the diagrams in this article it is not yet in existence.

## AS WE MAY THINK CONTINUED

ence, having a volume corresponding to a billion books, the whole affair assembled and compressed, could be lugged off in a moving van.

The material for the microfilm *Britannica* would cost a nickel, and it could be mailed anywhere for a cent. What would it cost to print a million copies? To print a sheet of newspaper, in a large edition, costs a small fraction of a cent. The entire material of the *Britannica* in reduced microfilm form would go on a sheet 8½ by 11 inches. Once it is available, with the photographic reproduction methods of the future, duplicates in large quantities could probably be turned out for a cent apiece beyond the cost of materials. The preparation of the original copy? That introduces the next aspect of the subject.

### THE AUTHOR NEED NOT WRITE—

#### HE COULD TALK HIS THOUGHTS TO A MACHINE

Will the author of the future cease writing by hand or typewriter and talk directly to the record? He does so indirectly, by talking to a stenographer or a wax cylinder, but the elements are all present if he wishes to have his talk directly produce a typed record. All he needs to do is to take advantage of existing mechanisms and to alter his language.

At a recent world fair a machine called a Voder was shown. A girl stroked its keys and it emitted recognizable speech. No human vocal cords entered into the procedure at any point; the keys simply combined some electrically produced vibrations and passed these on to a loudspeaker. In the Bell Laboratories there is the converse of this machine, called a Vocoder. The loudspeaker is replaced by a microphone, which picks up sound. Speak to it, and the corresponding keys move. This may be one element of the postulated system.

The other element is found in the stenotype, that somewhat disconcerting device encountered usually at public meetings. A girl strokes its keys languidly and looks about the room and sometimes at the speaker with a disquieting gaze. From it emerges a typed strip which records in a phonetically simplified language a record of what the speaker is supposed to have said. Later this strip is retyped into ordinary language, for in its nascent form it is intelligible only to the initiated. Combine these two elements, let the Vocoder run the stenotype, and the result is a machine which types when talked to.

Our present languages are not especially adapted to this sort of mechanization, it is true. It is strange that the inventors of universal languages have not seized upon the idea of producing one which better fitted the technique for transmitting and recording speech. Mechanization may yet force the issue, especially in the scientific field, whereupon scientific jargon would become still less intelligible to the layman.

One can now picture a future investigator in his laboratory. His hands are free and he is not anchored. As he moves about and observes, he photographs and comments. Time is automatically recorded to tie the two records together. If he goes into the field, he may be

CONTINUED ON PAGE 116

*Men need it, too!*

# QUEST

*All-purpose*

## DEODORANT

A most effective powder,  
for body odors,  
for foot comfort.



**RUB AND  
RELAX WITH  
MIFFLIN**

*Fifteen minutes to her date!  
No time to shower—she'll be late.  
Smart girl—she knows a pleasant trick,  
A Mifflin Rub! She'll feel fresh quick!  
Mifflin means the highest standard of quality. In  
Lilac, Pine, Lavender, Wintergreen—or unscented.*

## MIFFLIN

ISOPROPYL ALCOHOL RUBBING COMPOUND

★ THE NATIONAL RUB-DOWN ★



All men and women honorably  
discharged from the armed  
forces will wear this emblem.  
IT STANDS FOR HONORABLE  
SERVICE TO OUR COUNTRY.



AT ALL  
**10c** STORES  
FOREST CITY PRODUCTS, INC. - CLEVELAND 13, OHIO





*"Out of this nettle, danger, we pluck  
this flower, safety" Shakespeare, Henry IV*

There was a lovely flower that bloomed miraculously on the rubble heaps of London. This flower never grew wild before in England. The miracle of its blooming came from the nitrates loosed by tons of bombs that fell on English soil.

There were not many pleasant things to be seen among the ruins of World War II. Yet one thing we can be thankful for—this war made production bloom miraculously. Here in America, all of us turned to, hand workers and brain workers alike, to heap up the mountains of mu-

nitions that backed up our men. We worked with all our might at a job we didn't like—to get it over quickly and get our sons back to the friendly jobs of peace.

Olin Industries did not like the job of war any better than anybody else. Now they are mighty glad it's all over and they can get back to peace time and the making of things that will help people everywhere enjoy life with a free heart once again.



Soon there will be guns and ammunition for sportsmen, roller skates for kids, and flashlights and batteries for everybody. There will be brass, bronze and other metals needed by countless manufacturers to create a thousand and one things to make life better. All these will again come rolling out of the acres of mills and laboratories that make up Olin Industries.

The job of peace has been Olin's job for more than half a century. Today, the mountains of munitions America produced have served their purpose, and the lovely flower of peace will grow out of them.

OLIN INDUSTRIES, INC.  
East Alton, Illinois

*Divisions, Subsidiaries, Affiliates*

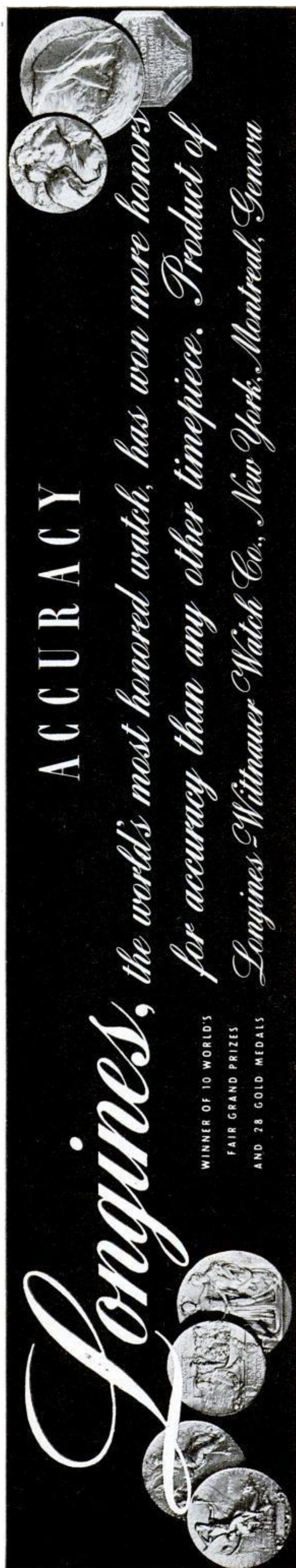
WINCHESTER REPEATING ARMS COMPANY • WESTERN CARTRIDGE COMPANY • WESTERN BRASS MILLS • BOND ELECTRIC CORPORATION • WESTERN POWDER MANUFACTURING COMPANY • GOVERNMENT OWNED OLIN OPERATED TACOMA ALUMINUM DIVISION • UNITED STATES CARTRIDGE COMPANY (OPERATING ST. LOUIS ORDNANCE PLANT) • LIBERTY POWDER COMPANY • EQUITABLE POWDER MANUFACTURING COMPANY • COLUMBIA POWDER COMPANY • EGYPTIAN POWDER COMPANY • TEXAS POWDER COMPANY.



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## AS WE MAY THINK CONTINUED

connected by radio to his recorder. As he ponders over his notes in the evening, he again talks his comments into the record. His typed record, as well as his photographs, may both be in miniature, so that he projects them for examination.

### SIMPLE REPETITIVE THOUGHT COULD BE DONE BY MACHINE, FOLLOWING LAWS OF LOGIC

Much needs to occur, however, between the collection of data and observations, the extraction of parallel material from the existing record, and the final insertion of new material into the general body of the common record. For mature thought there is no mechanical substitute. But creative thought and essentially repetitive thought are very different things. For the latter there are, and may be, powerful mechanical aids.

Adding a column of figures is a repetitive thought process, and it was long ago properly relegated to the machine. True, the machine is sometimes controlled by a keyboard, and thought of a sort enters in reading the figures and poking the corresponding keys, but even this is avoidable. Machines have been made which will read typed figures by photocells and then depress the corresponding keys; these are combinations of photocells for scanning the type, electric circuits for sorting the consequent variations, and relay circuits for interpreting the result into the action of solenoids to pull the keys down.

All this complication is needed because of the clumsy way in which we have learned to write figures. If we recorded them positionally, simply by the configuration of a set of dots on a card, the automatic reading mechanism would become comparatively simple. In fact, if the dots are holes, we have the punched-card machine long ago produced by Hollorith for the purposes of the census, and now used throughout business. Some types of complex businesses could hardly operate without these machines.

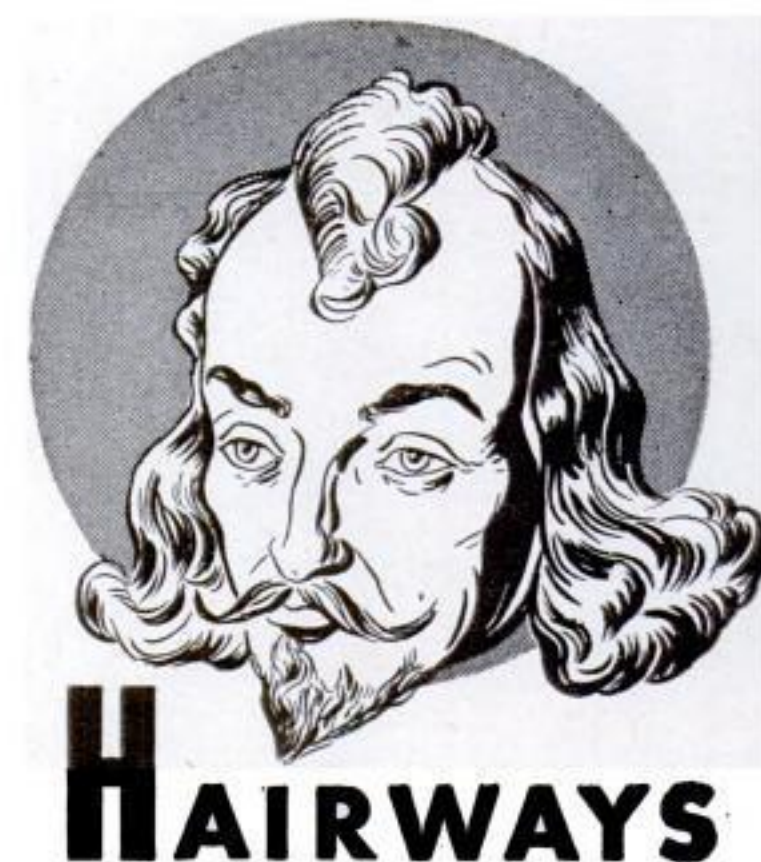
Adding is only one operation. To perform arithmetical computation involves also subtraction, multiplication and division, and in addition some method for temporary storage of results, removal from storage for further manipulation and recording of final results by printing. Machines for these purposes are now of two types: keyboard machines for accounting and the like, manually controlled for the insertion of data, and usually automatically controlled as far as the sequence of operations is concerned; and punched-card machines in which separate operations are usually delegated to a series of machines and the cards then transferred bodily from one to another. Both forms are very useful, but as far as complex computations are concerned, both are still in embryo.

Rapid electrical counting appeared soon after the physicists found it desirable to count cosmic rays. For their own purposes the physicists promptly constructed thermionic-tube equipment capable of counting electrical impulses at the rate of 100,000 a second. The advanced arithmetical machines of the future will be electrical in nature and they will perform at 100 times present speeds or more.

Moreover, they will be far more versatile than present commercial machines, so that they may readily be adapted for a wide variety of operations. They will be controlled by a control card or film, they will select their own data and manipulate it in accordance with the instructions thus inserted, they will perform complex arithmetical computations at exceedingly high speeds and they will record results in such form as to be readily available for distribution or for later further manipulation. Such machines will have enormous appetites. One of them will take instructions and data from a whole roomful of girls armed with simple keyboard punches and will deliver sheets of computed results every few minutes. There will always be plenty of things to compute in the detailed affairs of millions of people doing complicated things.

It is a far cry from the abacus, with its beads strung on parallel wires, to the modern keyboard accounting machine. It will be an equal step to the arithmetical machine of the future. But even this new machine will not take the scientist where he needs to go. Relief must be secured from laborious detailed manipulation of higher mathematics as well, if the users of it are to free their brains for something more than repetitive detailed transformations in accordance with established rules. A mathematician is not a man who can readily manipulate figures; often he cannot. He is not even a man who can readily perform the transformations of equations by the use of calculus. He is primarily an individual who is skilled in the use of symbolic logic on a high plane, and especially he is a man of intuitive judgment in the choice of the manipulative processes he employs.

All else he should be able to turn over to his mechanism, just as confidently as he turns over the propelling of his car to the intricate mechanism under the hood. Only then will mathematics be prac-

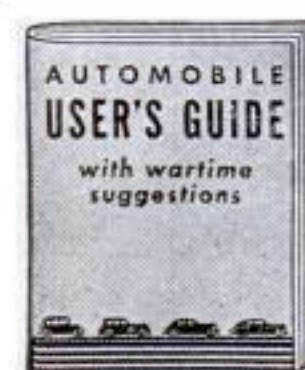


Sir Walter Raleigh helped build an empire, but his hairway wouldn't rate today. The modern way for men is the "JERIS-WAY." To have easy to comb, well-groomed hair, free from loose dandruff, massage your scalp daily with

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# Why one husband kissed his wife four times!



*"Here's a Kiss* for the money you're saving... while it's coming in faster through the war years. I know in my bones jobs like mine may not last forever. Who can tell what's going to happen day-after-tomorrow? Thank God you've got sense enough to see that today's the time to get a little money tucked away.



*"Here's a Kiss* for the War Bonds you're making me hold on to! I'd never do it without you, honey; it's too easy to find reasons for cashing 'em in—but when it comes time to put the children through school or pay for an emergency operation, we'll be thankful.



*"Here's a Kiss* for the insurance you talked me into buying. I've felt a lot easier ever since I've known our future is protected—you and the kids would be safe if anything happened to me—you and I won't have to spend our old age living on someone's charity. And every cent we put in insurance or War Bonds or other savings helps keep prices down.



*"and*

*here's a kiss* for being you—a woman with brains enough in your pretty head to make sure we don't buy a single thing we *don't* need in times like these—because you know a crazy wave of spending in wartime would march America straight into inflation. Baby, I sure knew how to pick 'em the day I married you!"

## ONE PERSON CAN START IT!

### You give inflation a boost

- when you buy anything you can do without
- when you buy above ceiling or without giving up stamps (Black Market!)
- when you ask more money for your services or the goods you sell.

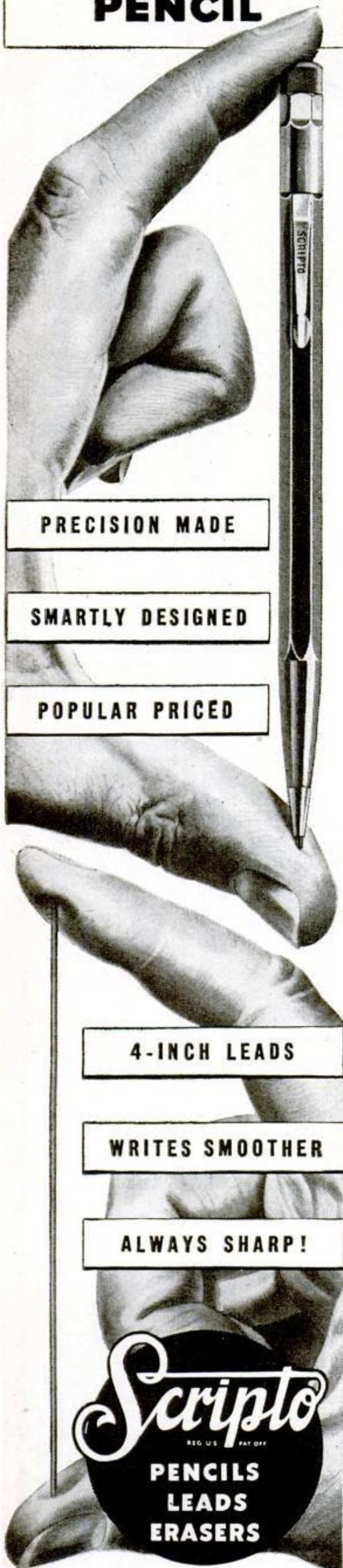
**SAVE YOUR MONEY.** Buy and hold all the War Bonds you can afford—to pay for the war and protect your own future. Keep up your insurance.

**HELP  
US  
KEEP**

**PRICES DOWN**



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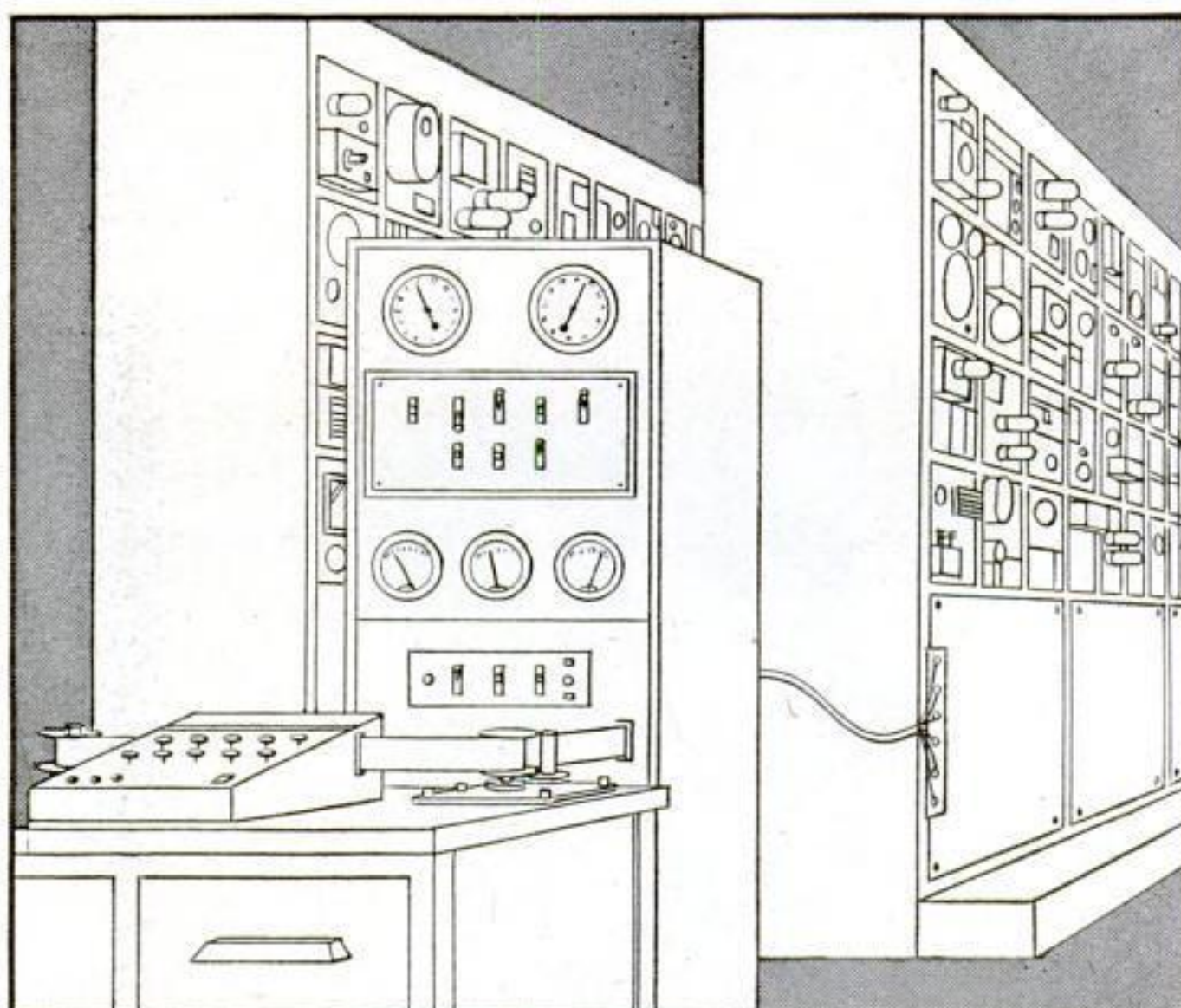
POPULAR PRICED

4-INCH LEADS

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ALWAYS SHARP!

**Scripto**  
PENCILS  
LEADS  
ERASERS



**THINKING MACHINES** would solve not only the most difficult mathematical problems but even problems of logical thought. Mathematical problems would be fed by punched tape to the electronic device in the racks at rear. Results, accomplished in a fraction of the time it takes man, would be recorded on dials at top and bottom of control board.

## AS WE MAY THINK CONTINUED

tically effective in bringing the growing knowledge of atomistics to the useful solution of the advanced problems of chemistry, metallurgy and biology. For this reason there will come more machines to handle advanced mathematics for the scientist. Some of them will be sufficiently bizarre to suit the most fastidious connoisseur of the present artifacts of civilization.

The scientist, however, is not the only person who manipulates data and examines the world about him by the use of logical processes, although he sometimes preserves this appearance by adopting into the fold anyone who becomes logical, much in the manner in which a British labor leader is elevated to knighthood. Whenever logical processes of thought are employed—that is, whenever thought for a time runs along an accepted groove—there is an opportunity for the machine. Formal logic used to be a keen instrument in the hands of the teacher in his trying of students' souls. It is readily possible to construct a machine which will manipulate premises in accordance with formal logic simply by the clever use of relay circuits. Put a set of premises into such a device and turn the crank and it will readily pass out conclusion after conclusion, all in accordance with logical law. We may some day click off arguments with the same assurance that we now enter sales on a cash register. But the machine of logic will not look like a cash register, even of the streamlined model.

## HOW TO CONSULT THE RECORD—MACHINES EXAMINE THE FILES AND SELECT RELATED ITEMS

So much for the manipulation of ideas and their insertion into the record. Thus far we seem to be worse off than before—for we can enormously extend the record; yet even in its present bulk we can hardly consult it. This is a much larger matter than merely the extraction of data for the purposes of scientific research; it involves the entire process by which man profits by his inheritance of acquired knowledge. The prime action of use is selection, and here we are halting indeed. There may be millions of fine thoughts, and the account of the experience on which they are based, all encased within stone walls of acceptable architectural form; but if the scholar can get at only one a week by diligent search, his syntheses are not likely to keep up with the current scene.

In a narrow sense something has already been done mechanically on selection. The personnel officer of a factory drops a stack of a few thousand employee cards into a selecting machine, sets a code in accordance with an established convention and produces in a short time a list of all the employees who live in Trenton and know Spanish. Even such devices are much too slow when it comes, for example, to matching a set of fingerprints with one of five million on file. Selection devices of this sort will soon be speeded up from their present rate of reviewing data at a few hundred a minute. By the use of photocells and microfilm they will survey items at the rate of a thousand a second and will print out duplicates of those selected.

CONTINUED ON PAGE 121

THE THRILL  
EVERY BOY  
WANTS MOST!



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Precision made—streamline design for years and years of safe, trouble-free riding by America's largest maker. Insist on the Schwinn label—it's your guarantee of the world's finest bicycle.

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Shows Hollywood stars riding their Schwinn-Built Bicycles. It's FREE—just send your name and address today to



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Own one pair of Vitality Shoes and you'll realize why active women say they're twice as smart. One pair satisfies both your craving for style and your need for a gentle, heel-gripping comfortable fit. So important, now that shoes must last twice as long, Vitality quality is more than a match for today's pedestrian pace. At fine stores throughout America.

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Complete Range of Sizes and Widths  
 Vitality Open Road Shoes for Outdoor  
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## How to go to town in the country

1. You don't have to look at this picture twice to see that this fellow is doing all right for himself.

The big reason, of course, is the man himself—and not the fact that he's wearing all the good-looking clothes

displayed below—topped off with that Royal Stetson Playboy.

But because he *is* the kind of fellow who knows his way around, he just naturally dresses with an eye to the occasion. Take a look at that outfit he's wearing, for example...



2. Gray flannel slacks, brown tweed jacket and natural tan polo coat won't make you the life of a week-end, but you *will* find them mighty colorful and comfortable.



3. For accessories, pick a shirt to blend with the Autumn leaves—cream colored; tie and socks to supply a little contrast—green; and a pair of sturdy brown shoes.



4. To put the finishing touch on this outfit, choose the Royal Stetson Playboy in Willow Green. Its soft, light feel and rakish lines are right on the button. It'll set you back \$10.

## Right for a Fall Week-End—The Royal STETSON Playboy

JOHN B. STETSON COMPANY, U. S. AND CANADA, HATS FOR MEN AND WOMEN

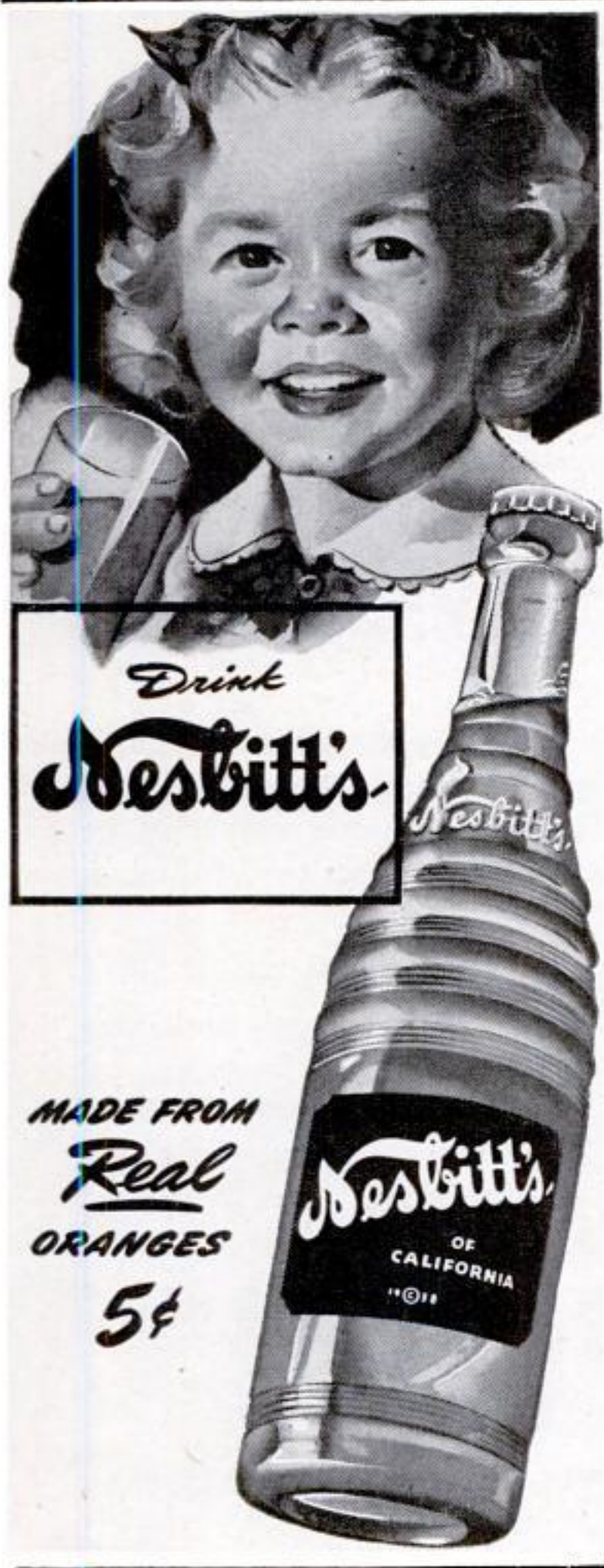




You'll recognize superior quality immediately when you examine a Sterling Hall Pipe. Its perfect design, handsome grain, beautiful finish and its smart lines instantly stamp it as a de luxe product. And you'll make no mistake in assuming that a pipe made with such care can be depended upon to give years of genuine smoking pleasure.

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## AS WE MAY THINK CONTINUED

This process is simple selection: it proceeds by examining in turn every one of a large set of items and by picking out those which have certain specified characteristics. There is another form of selection best illustrated by the automatic telephone exchange. You dial a number and the machine selects and connects just one of a million possible stations. It does not run over them all. It pays attention only to a class given by a first digit, then only to a subclass of this given by the second digit, and so on; and thus proceeds rapidly and almost unerringly to the selected station. It requires a few seconds to make the selection, although the process could be speeded up if increased speed were economically warranted.

### THE HUMAN BRAIN FILES BY ASSOCIATION—THE MEMEX COULD DO THIS MECHANICALLY

The real heart of the matter of selection, however, goes deeper than a lag in the adoption of mechanisms by libraries, or a lack of development of devices for their use. Our ineptitude in getting at the record is largely caused by the artificiality of the systems of indexing. When data of any sort are placed in storage, they are filed alphabetically or numerically and information is found (when it is) by tracing it down from subclass to subclass. It can be in only one place, unless duplicates are used; one has to have rules as to which path will locate it, and the rules are cumbersome. Having found one item, moreover, one has to emerge from the system and re-enter on a new path.

The human mind does not work that way. It operates by association. With one item in its grasp, it snaps instantly to the next that is suggested by the association of thoughts, in accordance with some intricate web of trails carried by the cells of the brain. It has other characteristics, of course; trails that are not frequently followed are prone to fade, items are not fully permanent, memory is transitory. Yet the speed of action, the intricacy of trails, the detail of mental pictures, is awe-inspiring beyond all else in nature.

Man cannot hope fully to duplicate this mental process artificially, but he certainly ought to be able to learn from it. In minor ways he may even improve, for his records have relative permanency. The first idea, however, to be drawn from the analogy concerns selection. Selection by association, rather than by indexing, may yet be mechanized. One cannot hope thus to equal the speed and flexibility with which the mind follows an associative trail, but it should be possible to beat the mind decisively in regard to the permanence and clarity of the items resurrected from storage.

Consider a future device for individual use, which is a sort of mechanized private file and library. It needs a name, and to coin one at random, "memex" will do. A memex is a device in which an individual stores all his books, records and communications, and which is mechanized so that it may be consulted with exceeding speed and flexibility. It is an enlarged intimate supplement to his memory.

It consists of a desk, and while it can presumably be operated from a distance, it is primarily the piece of furniture at which he works. On the top are slanting translucent screens on which material can be projected for convenient reading. There is a keyboard and sets of buttons and levers. Otherwise it looks like an ordinary desk.

In one end is the stored material. The matter of bulk is well taken care of by improved microfilm. Only a small part of the interior of the memex is devoted to storage, the rest to mechanism. Yet if the user inserted 5,000 pages of material a day it would take him hundreds of years to fill the repository, so he can be profligate and enter material freely.

Most of the memex contents are purchased on microfilm ready for insertion. Books of all sorts, pictures, current periodicals, newspapers are thus obtained and dropped into place. Business correspondence takes the same path. And there is provision for direct entry. On the top of the memex is a transparent platen. On this are placed longhand notes, photographs, memoranda, all sorts of things. When one is in place, the depression of a lever causes it to be photographed onto the next blank space in a section of the memex film, dry photography being employed.

There is, of course, provision for consultation of the record by the usual scheme of indexing. If the user wishes to consult a certain book, he taps its code on the keyboard and the title page of the book promptly appears before him projected onto one of his viewing positions. Moreover, he has supplemental levers. On deflecting one of these levers to the right he runs through the book before him, each page in turn being projected at a speed which just allows a recognizing glance at each. If he deflects it further to the right, he steps through the book ten pages at a time; still further, 100 pages at a time. Deflection to the left gives him the same control backwards.

A special button transfers him immediately to the first page of the



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### FOR THE 1 MAN IN 7 WHO SHAVES DAILY

#### It Needs No Brush Not Greasy or Sticky

Modern life now demands at least 1 man in 7 shave *every day*—and men in service must get clean shaves, too. Yet daily shaving often causes razor scrape, irritation.

To help men solve this problem, we perfected Glider—a rich, soothing cream. It's like "vanishing cream"—not greasy or sticky.

#### SMOOTHS DOWN SKIN

You first wash your face thoroughly with hot water and soap to remove grit and the oil from the skin that collects on whiskers every 24 hours. Then spread on Glider quickly and easily with your fingers. Never a brush. Instantly Glider smooths down the flaky top layer of your skin. It enables the razor's sharp edge to *glide* over your skin, cutting your whiskers close and clean *without scraping or irritating the skin*.

#### ESPECIALLY FOR THE 1 MAN IN 7 WHO SHAVES DAILY

For men who must shave *every day*—doctors, lawyers, businessmen, service men—Glider is invaluable. It eliminates the dangers frequent shaving may have for the tender face and leaves your skin smoother, cleaner. Glider has been developed by The J. B. Williams Co., who have been making fine shaving preparations for over 100 years.

#### SEND FOR GUEST-SIZE TUBE

If you want to try Glider right away, get a regular tube from your dealer. If you can wait a few days, we'll send a generous Guest-Size tube for a dime. It is enough for three weeks and is very handy for traveling.

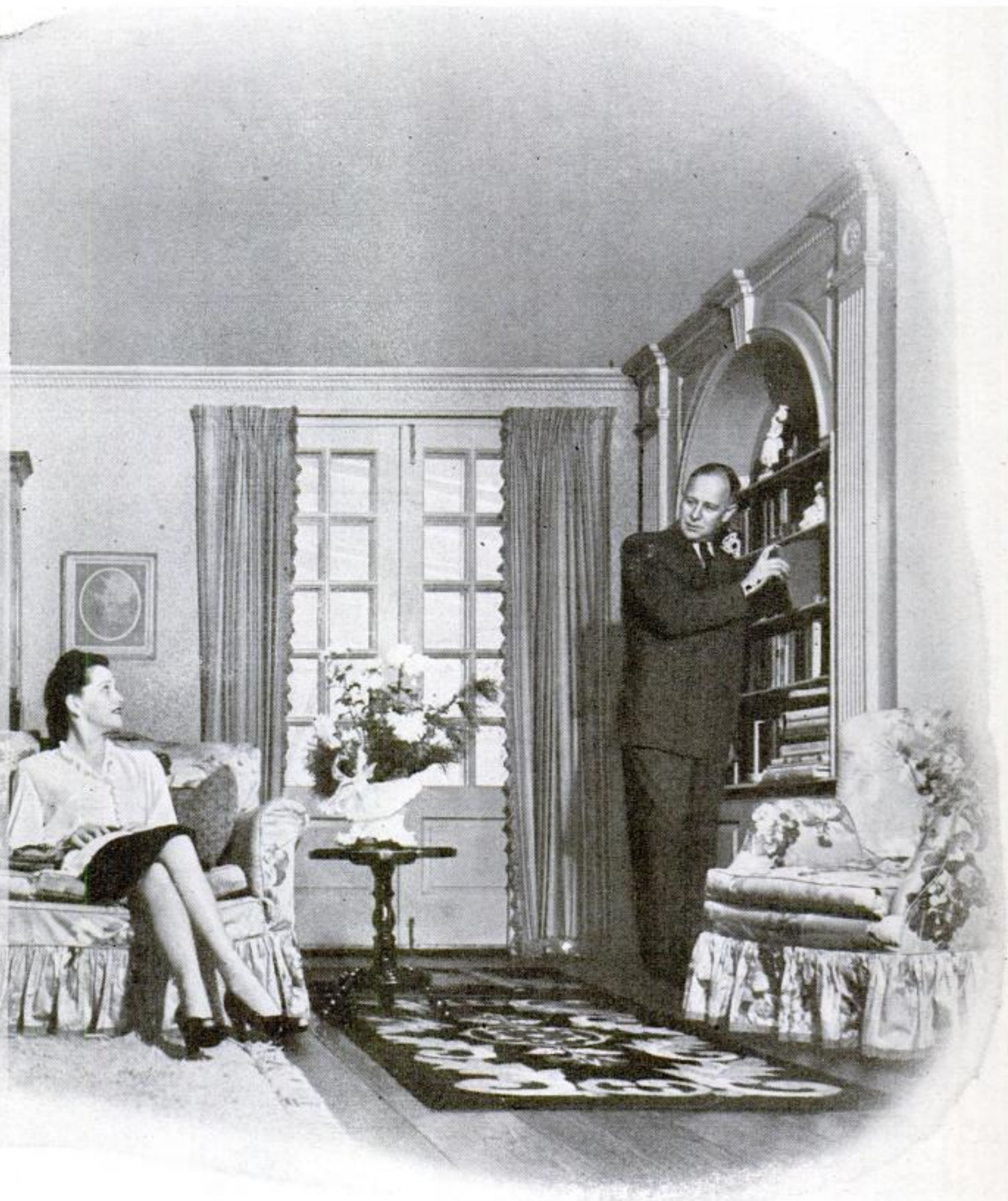
On this test we rest our case entirely—for we are positive that Glider will give you more shaving comfort than anything you've used.

Send your name and address with ten cents to The J. B. Williams Co., Dept. HG-16, Glastonbury, Conn., U. S. A. (Canada: Ville La Salle, Que.) Offer good in U. S. A. and Canada only.

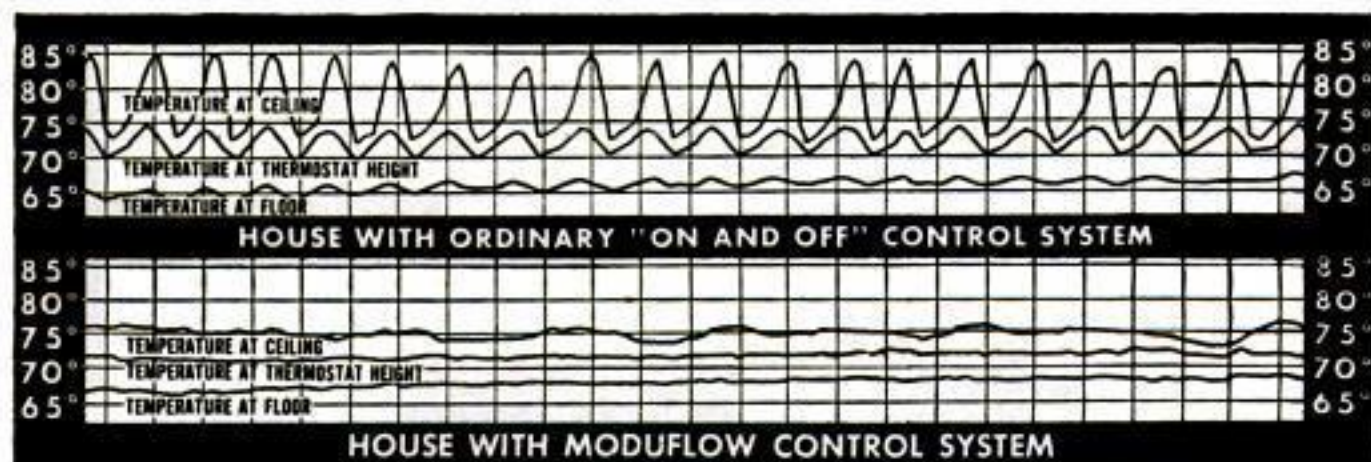
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MODUFLOW COMFORT from ceiling to floor.  
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## MODUFLOW COMFORT *from ceiling to floor*



See how Moduflow smooths out the up-and-down temperatures caused by ordinary control systems. Shown above are actual temperature recordings taken in two identical houses — one with and one without Moduflow. Without Moduflow, temperature varies as much as 20 degrees from floor to ceiling. With Moduflow there is comfort temperature from ceiling to floor.



Tomorrow's Apartment will have Personalized Heat... with Moduflow

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Please send my free copy of "Heating and Air Conditioning the Postwar Home."

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Buy and Hold MORE Victory Bonds!

The homes of tomorrow will demand heating comfort far beyond our present-day standards. For, in the average home of today, equipped with ordinary on-and-off control systems, temperatures in cold weather may vary as much as 20 degrees from ceiling to floor (see chart left). This means that heat is being wasted at the ceiling, and floors are frequently cold and drafty, uncomfortable and unhealthful.

But Moduflow, Honeywell's newest Control System, will correct this situation. By an ingenious method of control and supply, Moduflow nearly equalizes ceiling and floor temperatures. The heat formerly wasted at the ceiling is used to increase temperature at the floor; result — Moduflow Comfort from ceiling to floor.

Every home or apartment, however modest, can afford the greater comfort and heating efficiency provided by Moduflow. Learn how easily and inexpensively Moduflow can be installed in your present heating system or new postwar home. Get your copy of "Heating and Air Conditioning the Postwar Home" — the booklet that tells how Moduflow will create a new standard of comfort in house heating. Mail the coupon today for your free copy.

# MODUFLOW

The New HONEYWELL Heating Control System



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Here's Relief From  
**"SMOKE STACK"**  
THROAT!

Chase away that "smoky taste" between smokes. Tuck a taste-refreshing Luden's into your mouth. Clean, cool menthol clears it for the next smoke, steps up your smoking pleasure.



**NEW! LUDEN'S HONEY-LICORICE COUGH DROPS!**

Here's a new flavor in cough relief by the makers of Luden's Menthol Cough Drops. Both are medicated. Both 5¢.

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MODERN UNDERWEAR  
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OTIS—known for generations for longer wear and extra comfort.

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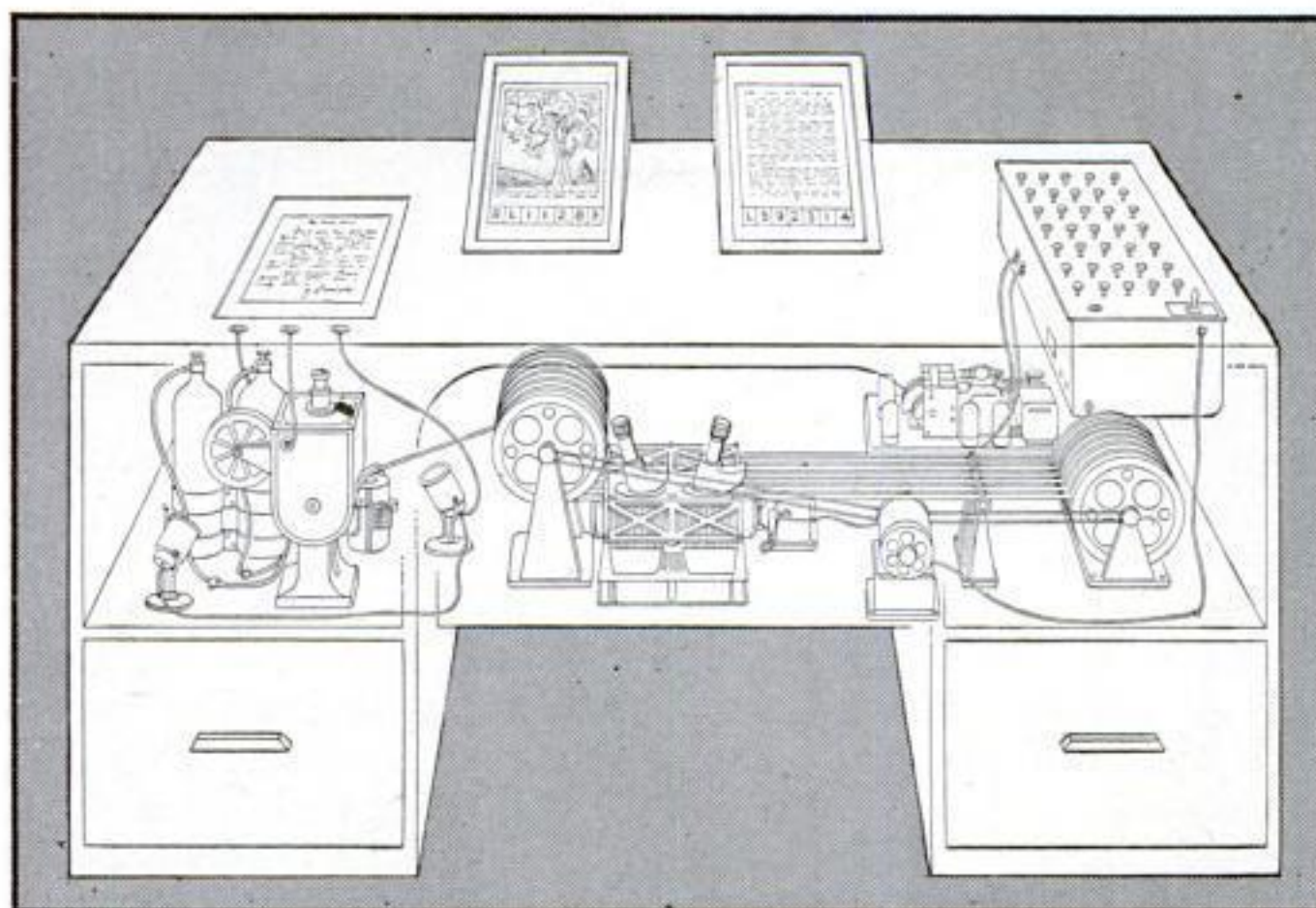
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**WELCH'S**

**FORGETFUL?**

A POCKET MEMORY SYSTEM. Perforated Coupons—each memo separate—tear out when attended to. Refills everywhere. Fine leathers. \$1 to 10. WRITE for Dealers' names. Catalog. Dept. L4

**ROBINSON REMINDERS**  
Westfield, Mass.



MEMEX in the form of a desk would instantly bring files and material on any subject to the operator's fingertips. Slanting translucent viewing screens magnify supermicro-film filed by code numbers. At left is a mechanism which automatically photographs longhand notes, pictures and letters, then files them in the desk for future reference.

## AS WE MAY THINK CONTINUED

index. Any given book of his library can thus be called up and consulted with far greater facility than if it were taken from a shelf. As he has several projection positions, he can leave one item in position while he calls up another. He can add marginal notes and comments, taking advantage of one possible type of dry photography, and it could even be arranged so that he can do this by a stylus scheme, such as is now employed in the telautograph seen in railroad waiting rooms, just as though he had the physical page before him.

### BUILDING "TRAILS" OF THOUGHT ON THE MEMEX— UNLIKE MEMORY, THEY WOULD NEVER FADE

All this is conventional, except for the projection forward of present-day mechanisms and gadgetry. It affords an immediate step, however, to associative indexing, the basic idea of which is a provision whereby any item may be caused at will to select another immediately and automatically. This is the essential feature of the memex. The process of tying two items together is the important thing.

When the user is building a trail, he names it, inserts the name in his code book and taps it out on his keyboard. Before him are the two items to be joined, projected onto adjacent viewing positions. At the bottom of each there are a number of blank code spaces and a pointer is set to indicate one of these on each item. The user taps a single key and the items are permanently joined. In each code space appears the code word. Out of view, but also in the code space, is inserted a set of dots for photocell viewing; and on each item these dots by their positions designate the index number of the other item.

Thereafter, at any time, when one of these items is in view, the other can be instantly recalled merely by tapping a button below the corresponding code space. Moreover, when numerous items have been thus joined together to form a trail, they can be reviewed in turn, rapidly or slowly, by deflecting a lever like that used for turning the pages of a book. It is exactly as though the physical items had been gathered together from widely separated sources and bound together to form a new book. It is more than this, for any item can be joined into numerous trails.

The owner of the memex, let us say, is interested in the origin and properties of the bow and arrow. Specifically he is studying why the short Turkish bow was apparently superior to the English long bow in the skirmishes of the Crusades. He has dozens of possibly pertinent books and articles in his memex. First he runs through an encyclopedia, finds an interesting but sketchy article, leaves it projected. Next, in a history, he finds another pertinent item and ties the two together. Thus he goes, building a trail of many items. Occasionally he inserts a comment of his own, either linking it into the main trail or joining it by a side trail to a particular item. When it becomes evident that the elastic properties of available materials had a great deal to do with the bow, he branches off on a side trail which takes him through textbooks on elasticity and tables of physical constants. He inserts a page of longhand analysis of his own. Thus he builds a trail of his interest through the maze of materials available to him.

And his trails do not fade. Several years later, his talk with a friend turns to the queer ways in which a people resist innovations, even of vital interest. He has an example in the fact that the out-



**You'll Always Look Smarter in a Paris Garter**

● Depend on Paris to put the stretch back in your garters. Here are All Elastic Paris Garters—the same fine quality you insist on—many new patterns and colors that you prefer. Wear garters for style—wear Paris for comfort. You will find them at fine stores everywhere at 55c and \$1.00.

● Also wear smart Paris Belts \$1 to \$7 and All Elastic Free-Swing Suspenders \$1.50 to \$3.50. A. Stein & Company, Chicago, New York, Los Angeles.

You can trust Paris—a dependable trademark that has stood the test of time.

**PARIS GARTERS**

NO METAL CAN TOUCH YOU

CONTINUED ON NEXT PAGE



# Millions of Men enjoy PORTO-PED COMFORT



THE STROLL  
Model 2268  
Picked by the  
Military



Other Millions  
need it

The many men who wear Porto-Ped Shoes prefer them for their outstanding features — smart styling, selected leathers and expert craftsmanship, PLUS the extra value of genuine foot comfort that's built right in. If you're tired of tired feet — get Porto-Peds, with the patented, resilient air cushion and flexible Arch Lift that will keep your feet feeling fresh hours longer. For

**Massage Air Cushion**  
★ Yields with every step  
★ Absorbs shocks, jars  
★ Keeps you foot-fresh



style plus true foot comfort, see your Porto-Ped dealer — or write us for his name.

PORTAGE SHOE MFG. COMPANY  
Milwaukee 1, Wisconsin  
Division of Weyenberg Shoe Mfg. Co.

**PORTO-PED**  
Air Cushion Shoes



\$7<sup>85</sup> — Some Styles Higher

## AS WE MAY THINK CONTINUED

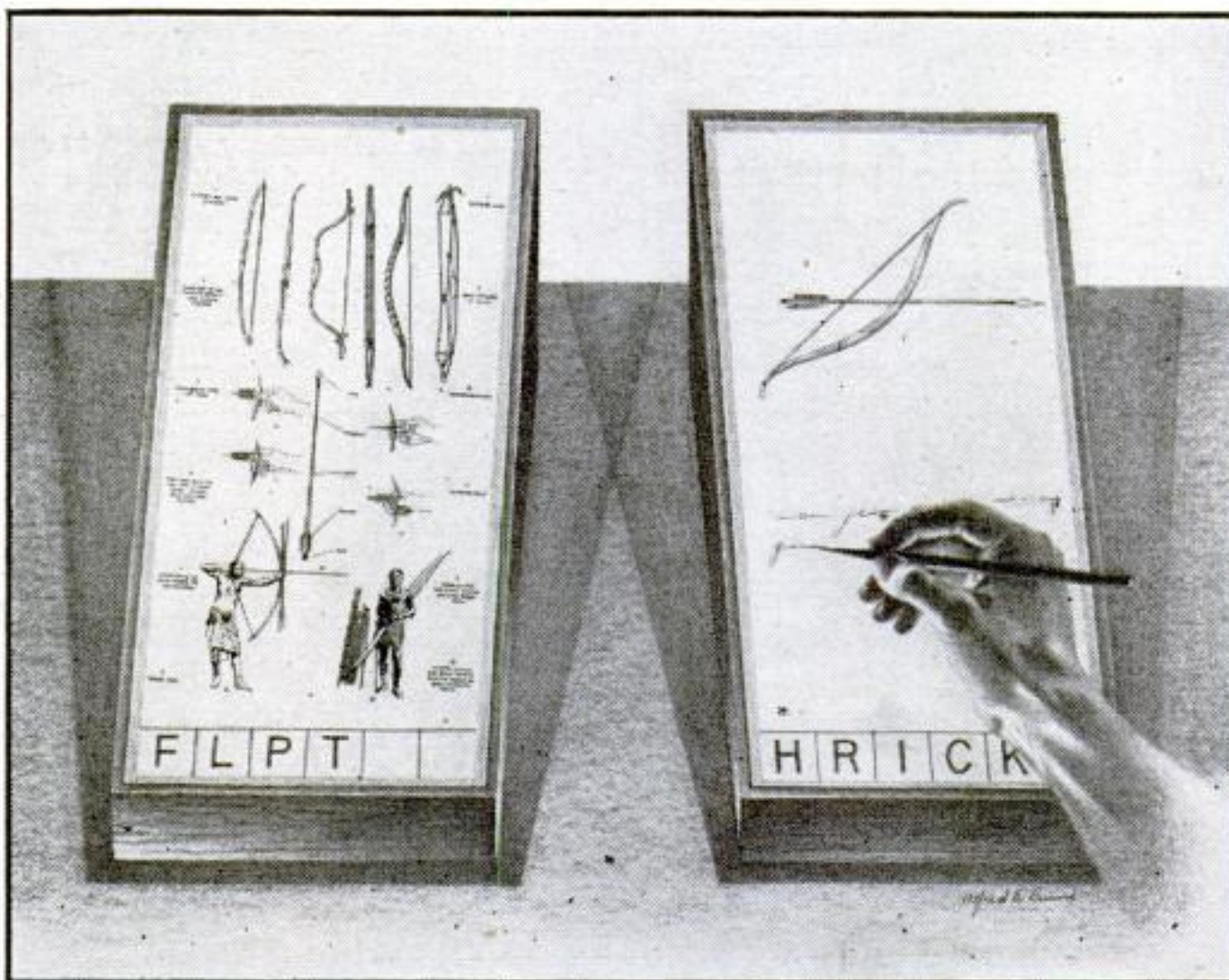
ranged Europeans still failed to adopt the Turkish bow. In fact, he has a trail on it. A touch brings up the code book. Tapping a few keys projects the head of the trail. A lever runs through it at will, stopping at interesting items, going off on side excursions. It is an interesting trail, pertinent to the discussion. So he sets a reproducer in action, photographs the whole trail out and passes it to his friend for insertion in his own memex, there to be linked into the more general trail.

Wholly new forms of encyclopedias will appear, ready-made with a mesh of associative trails running through them, ready to be dropped into the memex and there amplified. The lawyer has at his touch the associated opinions and decisions of his whole experience and of the experience of friends and authorities. The patent attorney has on call the millions of issued patents, with familiar trails to every point of his client's interest. The physician, puzzled by a patient's reactions, strikes the trail established in studying an earlier similar case, and runs rapidly through analogous case histories, with side references to the classics for the pertinent anatomy and histology. The chemist, struggling with the synthesis of an organic compound, has all the chemical literature before him in his laboratory, with trails following the analogies of compounds, and side trails to their physical and chemical behavior.

The historian, with a vast chronological account of a people, parallels it with a skip trail which stops only on the salient items, and can follow at any time contemporary trails which lead him all over civilization at a particular epoch. There is a new profession of trail blazers, those who find delight in the task of establishing useful trails through the enormous mass of the common record. The inheritance from the master becomes not only his additions to the world's record but, for his disciples, the entire scaffolding by which they were erected.

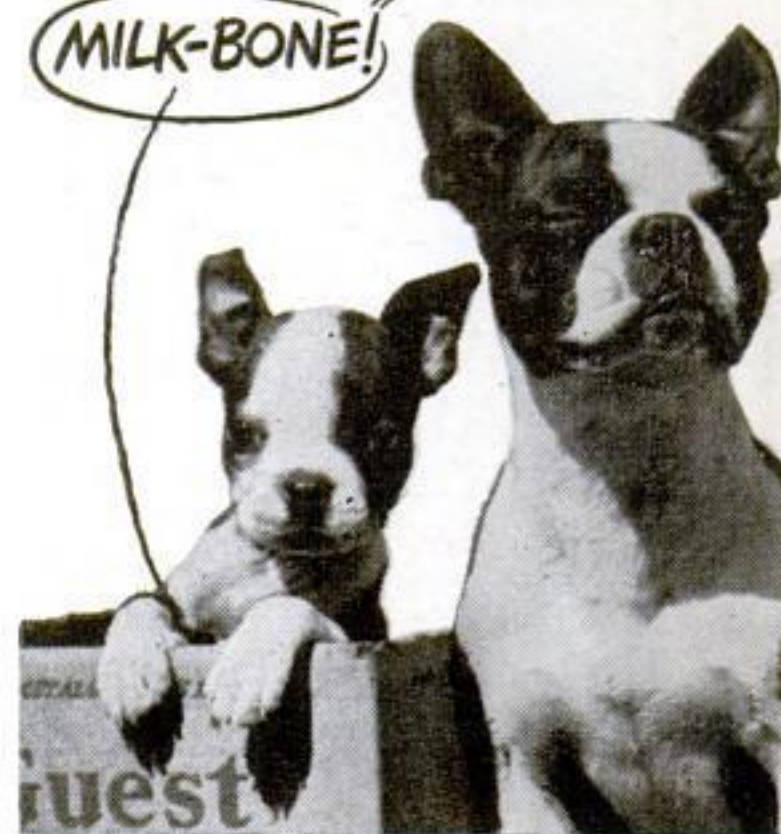
Thus science may implement the ways in which man produces, stores and consults the record of the race. It might be striking to outline the instrumentalities of the future more spectacularly, rather than to stick closely to methods and elements now known and undergoing rapid development, as has been done here. Technical difficulties of all sorts have been ignored, certainly, but also ignored are means as yet unknown which may come any day to accelerate technical progress as violently as did the advent of the thermionic tube.

Man has built a civilization so complex that he needs to mechanize his records more fully if he is to push his experiment to its logical conclusion and not merely become bogged down part way there by overtaxing his limited memory. The applications of science have built him a well-supplied house and are teaching him to live healthily therein. They have enabled him to throw masses of people against one another with cruel weapons. They may yet allow him truly to encompass the great record and to grow in the wisdom of race experience. He may perish in conflict before he learns to wield that record for his true good. Yet, in the application of science to the needs and desires of man, it would seem to be a singularly unfortunate stage at which to terminate the process or to lose hope as to the outcome.



**MEMEX IN USE** is shown here. On one transparent screen the operator of the future writes notes and commentary dealing with reference material which is projected on the screen at left. Insertion of the proper code symbols at the bottom of right-hand screen will tie the new item to the earlier one after notes are photographed on supermicrofilm.

"Honest, Boss, we like  
MILK-BONE!"



Puppy hearts... and big-dog pulses, too...beat faster when they see Milk-Bone Biscuit coming their way in the morning! It's so crunchy and chewy that it's like a real bone to your dog! Good clean exercise for teeth and gums besides!

Remember...feeding your dog Milk-Bone makes your work lighter...your dog happier!

Milk-Bone foods...made especially for dogs...are sold at your dealer's.

Milk-Bone contains nutrients your dog needs: Vitamins A, B<sub>1</sub>, B<sub>2</sub>, D and E.. Meat Meal.. Fish Liver Oil.. Whole Wheat Flour.. Minerals.. Milk



**NATIONAL BISCUIT COMPANY**

**DENTIST OFFERS YOU  
SAFE WAY TO ERASE**

**SMOKE  
SMUDGE**



If your teeth are discolored from smoking—learn these new facts:

- 1 You probably brush your teeth less than 1 minute.
- 2 Most dentifrices foam up and disperse—lose their brightening action—in even less time.
- 3 Iodent No. 2 has a clinging action that may double the time you polish your teeth—compact texture clings to each bristle to make a gentle smudge eraser.

See how it helps reveal the natural sparkle of your teeth. It's made by a dentist. Get Iodent No. 2 today.

**IODENT**

Tooth Paste or Powder  
for teeth hard to bryten

Millions of people with teeth  
easy to br, ten like Iodent No. 1





## MENOPAUSE— DIFFICULT OR EASY?



Mrs. A. R.

Was having "change of life," felt miserable.

Had old-fashioned idea that menopause had to be endured without help.

Edgy, nervous, brooded over real and imaginary ailments, created family "scenes."

Spent a number of distressing years. Took a long time to regain rational outlook on life.



Mrs. F. M.

Was having "change of life," felt miserable.

Heard that nowadays medical science can help.

Went to see her doctor and found this to be true.

Doctor prescribed course of treatment which enabled Mrs. F. M. to lead a happy, normal life.

**M**ENOPAUSE is a normal transition which no longer need hold its traditional terrors.

Today, doctors can outline treatment which will offset menopausal discomfort, and help to re-establish physical and emotional well-being.

The woman to whom menopause is a difficult period should not rely on "bridge-table" advice, but should talk things over with her doctor. For *only* the doctor is qualified to prescribe treatment that will bring her the relief now made possible through medical research.

PHARMACEUTICALS • BIOLOGICALS • SURGICAL DRESSINGS

**PARKE, DAVIS  
& COMPANY**

RESEARCH AND MANUFACTURING LABORATORIES  
DETROIT 32, MICHIGAN

Advertisement No. 198 in a Parke, Davis & Co. series  
on the importance of prompt and proper medical care.

**A HEALTHY NATION FIGHTS BEST-SEE YOUR DOCTOR**



# Blatz Beer



THE KEY TO

Good  
Taste

BUY... Don't Sell  
War Bonds!

Finest ingredients, scientifically controlled and laboratory tested, give you beer that's never sharp, never bitter, always mellow. Blatz is your key to enjoyment!

*Fast Becoming America's Favorite*



Copyright 1945, Blatz Brewing Co., Milwaukee, Wis.  
In our 95th year





BARRICADED BY SUITCASES AND TRUNK, WHICH SHE LATER DECIDED NOT TO USE, DACHE TALKS TO BUSINESS CALLER IN PENTHOUSE APARTMENT ABOVE SHOP

## PACKING FOR PARIS

Hatmaker Lilly Daché leaves things to last day but finally gets off

Twenty-one years ago Lilly Daché arrived in New York from Paris to make a career for herself as a milliner. She succeeded so well that in time she became one of the country's most famous hatmakers. Today she takes in a million dollars and turns out 30,000 hats a year. A few weeks ago she decided to go back to Paris to renew contacts with makers of buttons, flowers, veilings, ribbons which she uses for trimming. LIFE looked in on Daché's East 56th Street establishment in New York to watch her get ready.

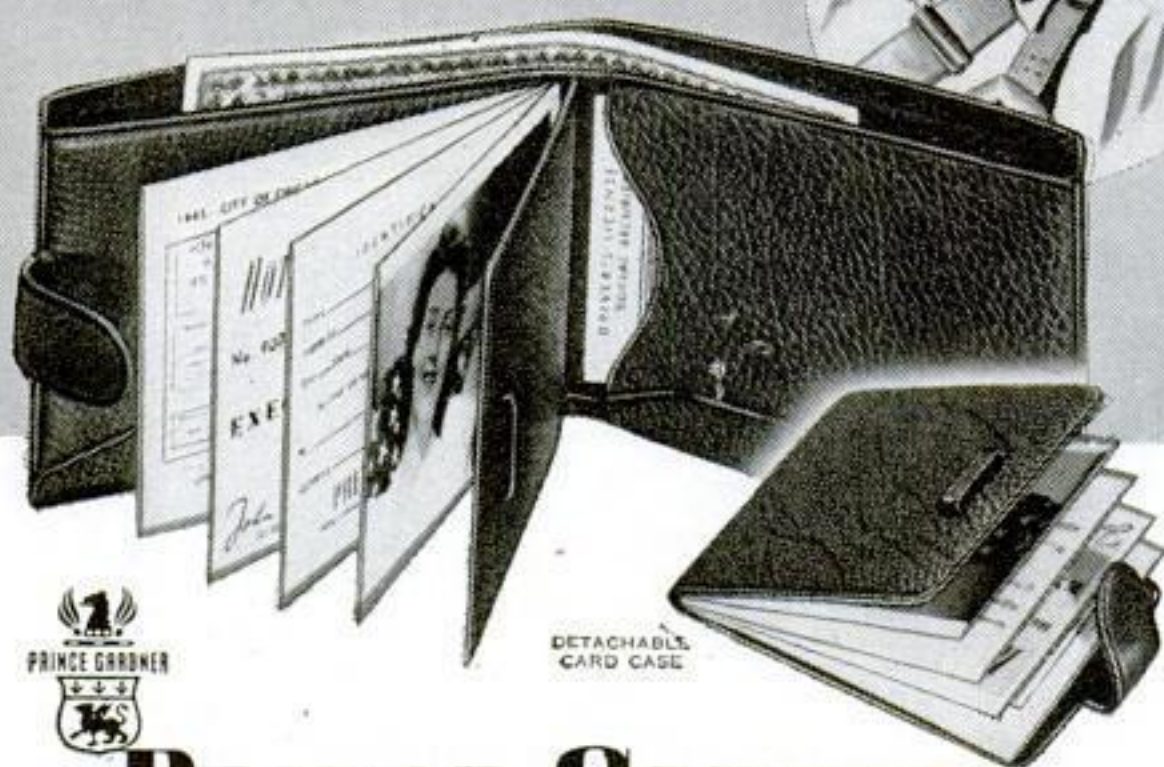
Miss Daché, who works best against a deadline, had left everything until the last minute. On her last day in New York she selected fabrics and designs for her fall line, held conferences with her staff and, finally, packed. Her husband, Jean Despres, vice president of Coty's, hovered nervously around trying to help while Daché scolded, cajoled, charmed and got things done. The next morning she kept exhorting her friends to get her to the airport on time else, she warned, "Jean will have kittens with velvet tails!"



★ MAIL GIFTS OVERSEAS SEPT. 15 TO OCT. 15 ★

TOP OF THE LIST...THIS

# Overseas Christmas Gift



## PRINCE GARDNER Registrar

A gift he can really use...a crisp new Prince Gardner Registrar to replace his dog-eared billfold! He'll like its many compartments... detachable window pass case for snapshots and credentials. Shown, Genuine Embossed Pigskin, an unusual value at \$5. Others to \$20, plus tax. PRINCE GARDNER, Dept. 19, St. Louis 10, Mo.

CREATORS OF PRINCESS GARDNER BILLFOLDS FOR WOMEN

*"It's the flavour"*



Made since 1830 by Wm. Teacher & Sons, Ltd., Glasgow

**TEACHER'S**  
Perfection of Blended Scotch Whisky

SOLE U. S. AGENTS: Schieffelin & Co., NEW YORK CITY • IMPORTERS SINCE 1794

### Packing for Paris CONTINUED



She holds a bedside conference with her staff at 8:30 a.m. on her last day in New York, consulting catalog of her hats and telling Designer Peggy Buchanan (right)



She has her hair dressed while she picks materials from samples, chooses models from photos for fashion show, orders accessories for a new line and dictates a letter.



She tries on hats to take with her, indicates (above) where she wants veiling added. She packed ten hats, all brown or black, plus some bejeweled hair nets for evening.





to "make a hat like 5500, in blue velvet to go with mink." Then she went through her mail, talking to herself as she read, interrupting to give orders by telephone.



She has slacks fitted, for wear while bicycling in Paris. She was surprised that she looked so trim. Tailor said he could not finish them in time, but she persuaded him.



She chooses jewelry, some to be refashioned in Paris, the rest to wear. There were several jade pieces, gold hatpins, a 20-carat solitaire, a compact set with diamonds.

CONTINUED ON NEXT PAGE

*For sure allure!*



...wear a  
*Life-Bra*  
by Formfit

**LIFTS • MOLDS • CORRECTS • HOLDS**

There is no guesswork. All the clever "know-how" of America's foremost brassiere designers is yours . . . instantly!—when you slip into a luxurious, tailored-to-fit Formfit Life-Bra with the ingenious quilted cushion beneath each breast pocket. It stays securely . . . lifts alluringly . . . with never a let-down! Ask for a Formfit today!

\$1<sup>25</sup> to \$3<sup>50</sup>

*at all the better stores & shops*

MADE BY THE FORMFIT COMPANY • CHICAGO • NEW YORK

free your body  
of unpleasant hair  
the pleasant  
way

with



IMRA\* is an exquisite cream depilatory which removes superfluous hair sweetly. No unpleasant smell. No razor nicks. No razor bristle. Just smooth it on . . . later rinse it off. Such a difference!

Jars only, 2½-oz. size . . . 65¢ (plus Fed. Tax)

ARTRA COSMETICS, INC., BLOOMFIELD, N. J.

\*REG. U.S. PAT. OFF.  
U. S. PAT. NO. 2352524





## REIGNING FAVORITE

Betty Grable, appearing in 20th Century-Fox' "The Dolly Sisters," names Royal Crown Cola her favorite. It won her taste-test. Try it yourself. Say "R C for me!" That's the quick way to get a frosty bottle of Royal Crown Cola—best by taste-test! Nehi Corporation, Columbus, Georgia.

## Packing for Paris CONTINUED



She gives directions to Jules Brodeur, designer, for remodeling of lobby showroom, tells him where she wants new "bar" for decorative hair nets which cost up to \$75.

"Blubber was good enough for Ukluk  
before he went to college...  
now he chews nothing but gum!"

**FLEERS**  
Candy Coated  
**GUM**  
PEPPERMINT

for finer flavor  
**FLEER'S**

SOMETIMES SCARCE  
ALWAYS ENJOYABLE

FRANK H. FLEER CORP. • ESTABLISHED 1885



Spread out on her bed, clothes to be packed include 25 pairs of stockings, a nylon girdle, 12 sweaters, Chinese pajamas, snow boots, plus soap, vitamin pills and coffee.





At the airport she stands guard over three duffel bags and hatbox. She was allowed to take 55 pounds, took 129 pounds, had to pay excess luggage charge of \$194.62.



Daché gets kissed by her husband as she boards American Export Airlines plane. Arrived in Paris, she promptly began sending cables home. One asked for some pepper.



"You can never tell what might develop now that you're rid of '5 o'clock Shadow'!"

### ADVANCE YOUR CHANCE!

Get that chin-clean look by shaving with genuine Gem Blades. They prevent "5 o'clock Shadow" because their super-keen edges get the beard at skin level. Made by the makers of your Gem Razor, Gems fit precisely!

AVOID '5 O'CLOCK SHADOW' WITH



**GEM**  
RAZORS and BLADES




LISTEN TO  
THE  
**FALCON**



EVERY TUESDAY  
EVENING OVER  
MUTUAL NETWORK





STEERING THEIR BOAT FROM THE MASTHEAD  
THE FISHERMEN WATCH FOR SWORDFISH FINS





FISHERMAN CHRISTIANSEN RESTS ON HIS HARPOON AS "DOROTHY AND EVERETT" PASSES ANOTHER SWORDFISHING BOAT WHICH ALSO CARRIES MEN ON HER MAST

## Life Goes Swordfishing

The "Dorothy and Everett" of Martha's Vineyard brings in a good catch

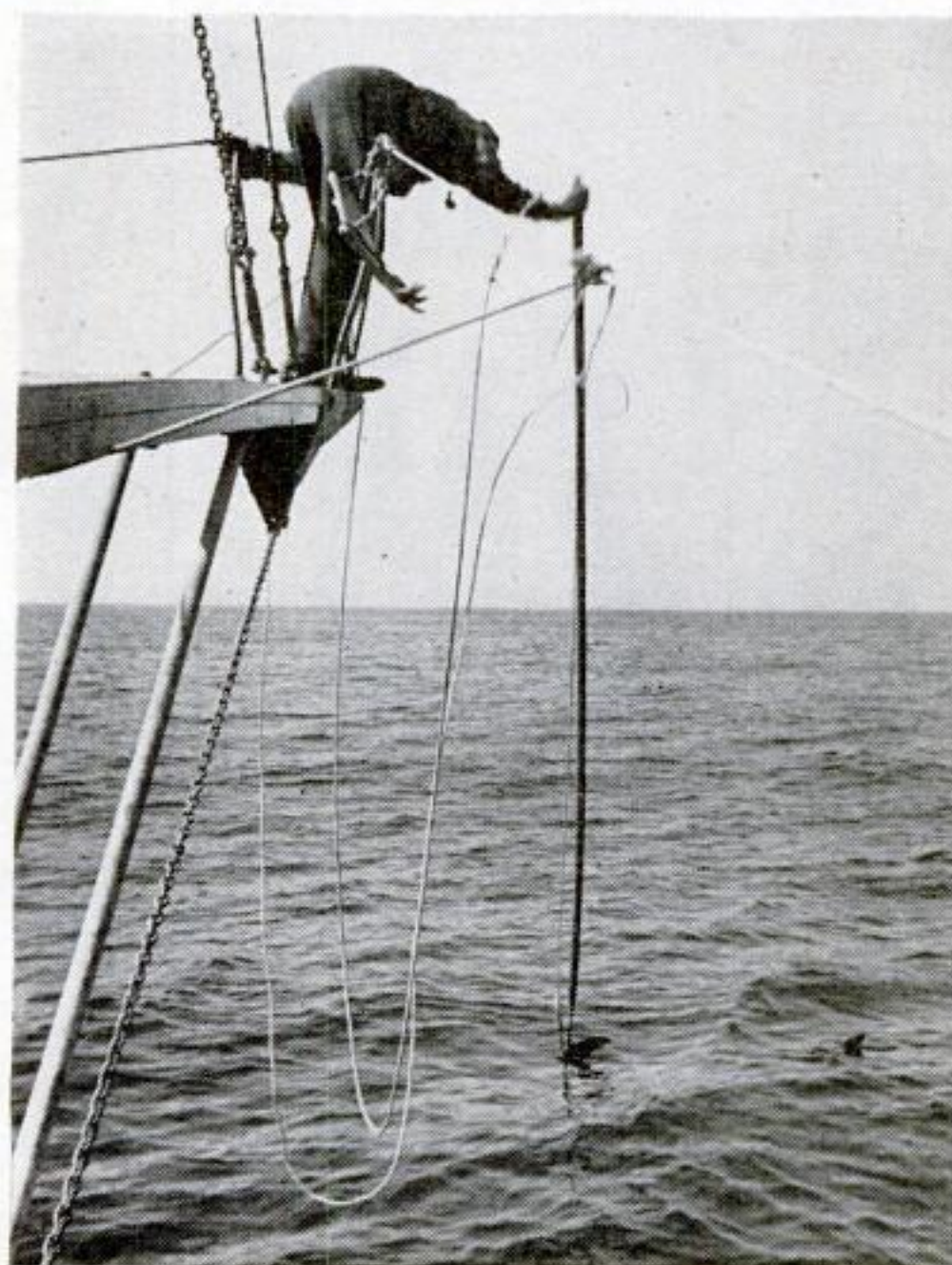
The *Dorothy and Everett* is one of a fleet of jaunty little boats which go out from Martha's Vineyard, Mass., almost every day during the summer to hunt for swordfish. She is named for the two children of her owner and captain, Donald Poole. This year business has been good for Captain Poole and his crew. The big blue-and-silver swordfish are plentiful and their steaks are even more precious than usual because of the meat shortage. Before the swordfish swim to other waters in September, the *Dorothy and Everett* will have cleared more than \$7,500 for the season.

On a normal fishing day the *Dorothy and Everett* leaves Menemsha, on Martha's Vineyard, at 6:30 a.m. and comes back at dusk. During most of the day three men perch on top of her stubby mast (*opposite page*), watching for the dorsal fin of the swordfish. When they see a fin they cruise straight for it, steering the boat with a tiller rope which runs to the top of the mast. Usually the swordfish is sluggish and hardly moves un-

til the boat has nearly run it down. Then the "striker," standing on a bowsprit (*above*) which is like a diving board, hurls a harpoon straight down at it.

People who fish for fun like to hook swordfish and fight them for hours. Commercial fishermen do nothing of the kind. Attached to each harpoon is 450 feet of line and a small red marker barrel. When the fish is harpooned the marker barrel is thrown over the side and the boat cruises after more fish. Hours later, when the fish has exhausted itself, the fishermen come back to the barrel and haul the catch into the boat by the tail. During this process they are careful not to arouse the swordfish, some of which have been known to thrust their long "swords" clear through a wooden dory.

When Photographer F. W. Goro spent a day aboard the *Dorothy and Everett*, the crew caught six swordfish, some of them weighing more than 400 pounds. The fish were cut up and cleaned aboard the boat and sold ashore for \$300. It was a fine day for the fishermen.



Spearing swordfish, Striker Christiansen drives his harpoon straight down. Harpoon head, attached to line, then comes off.



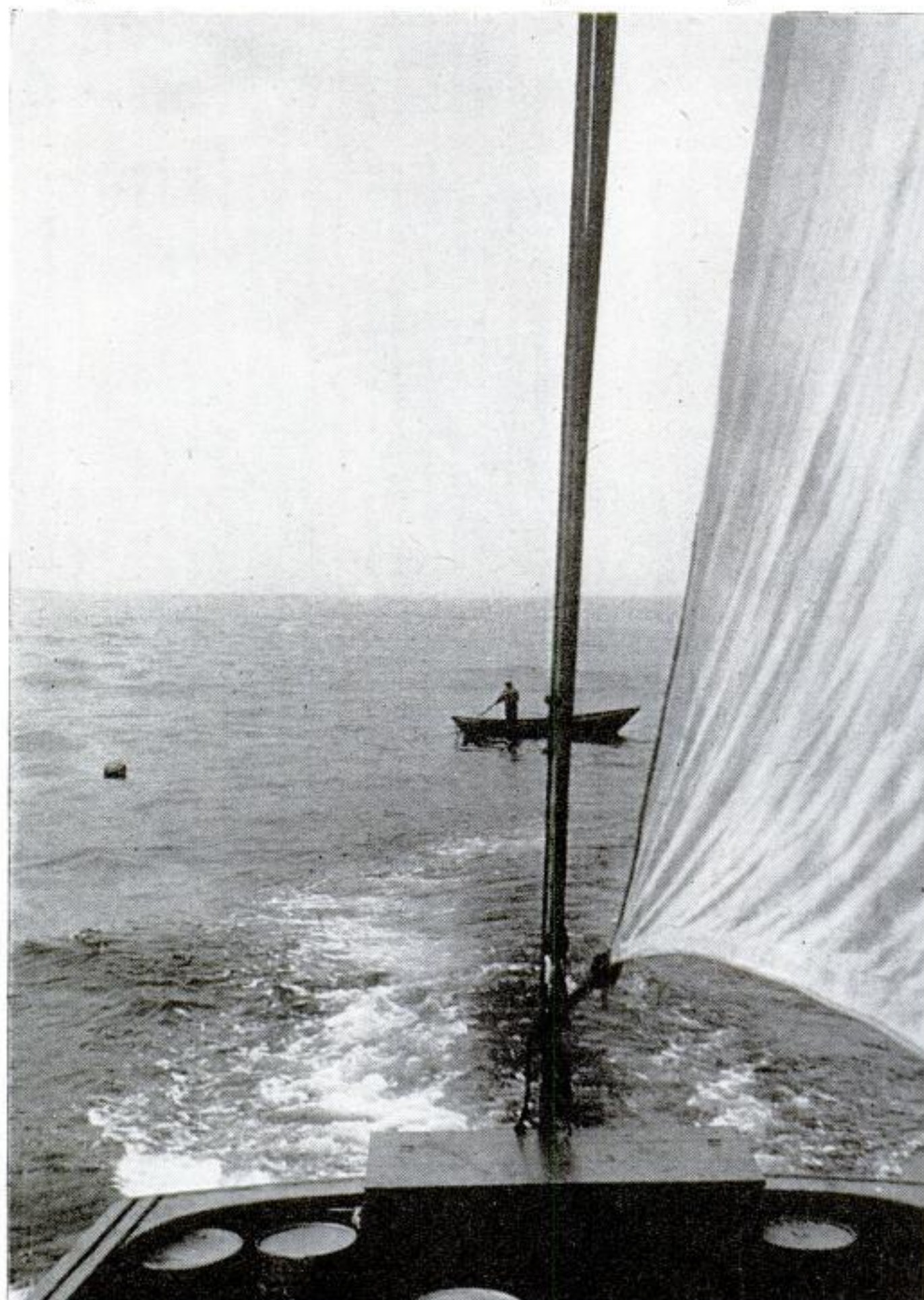
**NO  
SUGAR...?**



**NO  
COMPROMISE**

Sugar is very scarce. Our quota is cut so low we are unable to make enough HIRES to meet the great popular demand.

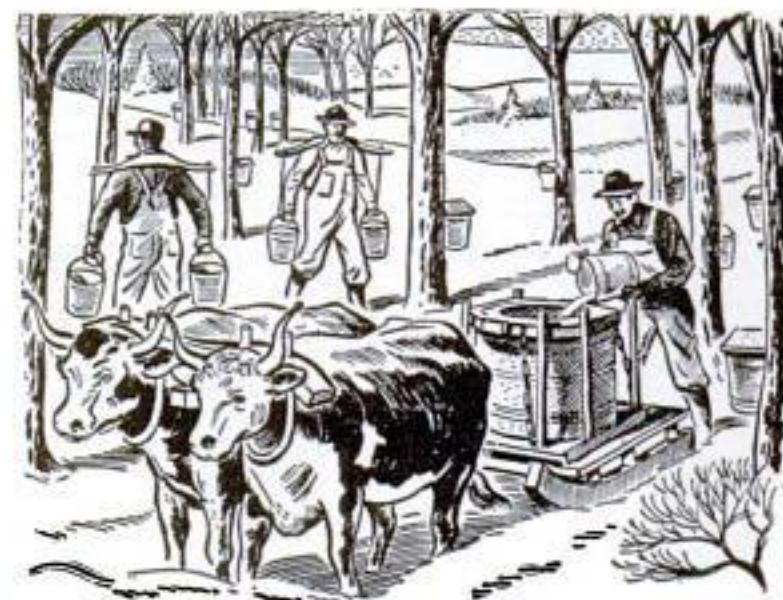
During this scarcity, whatever others do, HIRES will not substitute. Every time you are able to buy HIRES, you'll know it is the real HIRES flavor and quality you've always liked. And soon, we hope, there'll be sufficient for all.



Going out to get harpooned fish, Captain Poole paddles his dory to marker barrel. Picking up barrel, he nurses fish to the dory by rope attached to the harpoon head.



A big swordfish is pulled aboard by the tail, the harpoon head sticking through its underside. One of the five other fish in the boat is under the sailcloth at the left.



In early days, a neck yoke eased the work of carrying heavy buckets of maple sap.

## Here's real old-time maple sugar flavor

If you're hankering for real maple sugar flavor in your syrup, we would like to have you try our Vermont Maid Syrup.

To get a true maple sugar flavor, we first select maple sugar that's rich and full-bodied. Then we blend it with cane and other sugars.

This blend enhances the flavor of the maple—makes it richer, more delicious. Also more uniform, so every bottle of our Vermont Maid Syrup has the same real maple sugar flavor. At your grocer's.

Penick & Ford, Ltd., Inc., Burlington, Vermont.



## Vermont Maid Syrup



**Precious Nail File**

Precision made, peerless in performance, this La Cross implement is precious. If you own one, treasure it. For the time being it may be difficult to replace; production is curtailed. Give it the care it deserves.

*La Cross*

La Cross... For more than 4 decades America's Finest Manicure Implements

SCHNEFEL BROS. CORP. • 630 FIFTH AVE. • NEW YORK 2

# LIFE

**MORE READERS EVERY WEEK THAN  
ANY OTHER MAGAZINE IN HISTORY**

**CAT'S PAW**

*tan*

**non-slip**

*Rubber Heels & Soles*



CONTINUED ON PAGE 137



# Bombs Away!...Then a *Flying Horsepower* Getaway!

From Socony-Vacuum Aviation Fuel  
Developments—New Super Power for  
U.S. Warplanes...

## New Car-Power for You . . . Postwar!

**O**VER THE TARGET—Flying Horsepower whips U.S. warplanes in for the kill and away with breath-taking speed!

Flying Horsepower is dazzling new climbing, maneuvering and bomb-carrying power resulting from Socony-Vacuum developments in super aviation fuels!

Super war-power today—what will it mean in your car postwar?

Just the quickest-acting, most effortless performance you've ever

known!...Flashing pick-up, greater pull, instant engine response!

The same super-fuel developments—the same super-power ingredients—will be used in a wonderful new postwar Mobilgas that delivers *Flying Horsepower*! That's our promise—backed by the world's greatest catalytic cracking experience and capacity!

SOCONY-VACUUM OIL CO., INC.  
and Affiliates: Magnolia Petroleum Co.,  
General Petroleum Corporation of Calif.

"INFORMATION PLEASE" returns September 10. Until then, hear Rise Stevens—Mondays 9:30 P. M., E. W. T., NBC

Official U.S. Navy Photo

AFTER VICTORY—

# Mobilgas



## for *Flying Horsepower*



**WASHINGTON**—critical crops: vegetables, fruit, apples, silage, sugar beets. Volunteers needed now and through Oct.

**MICHIGAN**—critical crops: fruit, vegetables, tomatoes, potatoes, sugar beets. Volunteers needed now and through October.

**WISCONSIN**—critical crops: tomatoes, potatoes, fruit, canning crops, sugar beets. Volunteers needed now and through October.

**SOUTH CAROLINA**—critical crops: peaches, peanuts, cotton. Volunteers needed now and through October.

**INDIANA**—critical crops: corn, tomatoes, canning crops. Volunteers needed now and through October.

**CONNECTICUT**—critical crops: tobacco, vegetables, potatoes, apples. Volunteers needed now and through September.

**UTAH**—critical crops: vegetables, fruit, sugar beets. Volunteers needed now and in October.

**TEXAS**—critical crops: cotton, peanuts, rice. Volunteers needed now and through October.

**NORTH DAKOTA**—critical crops: wheat, flax, potatoes, sugar beets. Volunteers needed now and to October.

**SOUTH DAKOTA**—critical crops: wheat, sugar beets. Volunteers needed now and to Oct.

**MAINE**—critical crops: blueberries, potatoes. Volunteers needed now and through September.

**NEBRASKA**—critical crops: corn, potatoes, wheat, sugar beets. Volunteers needed now and through November.

**RHODE ISLAND**—critical crops: fruits and vegetables. Volunteers needed now and to September.

**OREGON**—critical crops: vegetables, fruit, hops, potatoes, sugar beets. Volunteers needed now and through Oct.

**MINNESOTA**—critical crops: wheat, corn, canning crops, sugar beets. Volunteers needed now and through November.

**ILLINOIS**—critical crops: corn, soybeans, canning crops, silage. Volunteer workers needed now, through November.

**VIRGINIA**—critical crops: peanuts, apples. Volunteers needed now and through October.

**MARYLAND**—critical crops: peaches, beans, tomatoes, potatoes, apples. Volunteers needed now and through Sept.

**KENTUCKY**—critical crop: tobacco. Volunteers needed in August and September.

**CALIFORNIA**—critical crops: vegetables, fruit, sugar beets, cotton, rice, nuts, citrus. Volunteers needed now and through November.

**NEW MEXICO**—critical crop: cotton. Volunteers needed in September to December.

**OHIO**—critical crops: corn, tomatoes, fruit, canning crops. Volunteers needed now and through October.

**NEW JERSEY**—critical crops: fruit, vegetables, tomatoes, potatoes, hay, cranberries. Volunteers needed now and through Oct.

**DELAWARE**—critical crops: peaches, vegetables, tomatoes, potatoes, apples. Volunteers needed now and through September.

**GEORGIA**—critical crops: peanuts, cotton. Volunteers needed now and through October.

**ARIZONA**—critical crops: cotton, hay, vegetables. Volunteers needed August to February.

**COLORADO**—critical crops: vegetables, potatoes, onions, sugar beets. Volunteers needed now and through October.

**TENNESSEE**—critical crops: tobacco, beans, cotton. Volunteers needed now and through Sept.

**MONTANA**—critical crops: wheat, sugar beets. Volunteers needed now and in October.

**WYOMING**—critical crops: potatoes, sugar beets. Volunteers needed in September and October.

**MISSISSIPPI**—critical crop: cotton. Volunteers needed September to November.

**ALABAMA**—critical crops: peanuts, cotton. Volunteers needed now and through October.

**PENNSYLVANIA**—critical crops: peaches, apples, vegetables, tomatoes, potatoes, silage. Volunteers needed now and through October.

**NEW YORK**—critical crops: fruit, beans, vegetables, hay, canning crops, grapes. Volunteers needed now and through September.

**MASSACHUSETTS**—critical crops: vegetables, tomatoes, potatoes, cranberries, apples. Volunteers needed now and through October.

**OKLAHOMA**—critical crops: cotton, grain sorghums. Volunteers needed in September.

**LOUISIANA**—critical crops: rice, cotton, sugar cane. Volunteers needed during September to November.

**ARKANSAS**—critical crops: rice, cotton. Volunteers needed in September and October.

**WEST VIRGINIA**—critical crops: peaches, apples. Volunteers needed now and through October.

**HAWAII**—critical crops: pineapple, sugar cane. Volunteers needed throughout the year.

**NEVADA**—critical: ranch work. Now and through October.

**IOWA**—critical crops: corn, soybeans, canning crops. Volunteers needed now and through October.

**VERMONT**—critical crops: hay, apples. Volunteers needed now and through September.

**IDAHO**—critical crops: vegetables, fruit, potatoes, sugar beets. Volunteers needed now and through October.

**MISSOURI**—critical crops: cotton, fruit, corn. Volunteers needed during September and October.

# WANTED -

## VOLUNTEER WORKERS TO HELP HARVEST AND PACK AMERICA'S FRUITS, VEGETABLES, GRAINS, AND OTHER VITAL CROPS



**N**EVER before has there been such a demand for fruits, vegetables, grain, cotton, fats and oils by our Armed Forces, our Allies, and our great civilian population. Never before has there been such a need for volunteer workers in the fields, orchards, vineyards,

canneries and food-processing plants. Will you help by giving a day, a few week-ends, or your vacation? Prevailing wages for full or part-time work. When the call comes in your community, sign up at your local Farm Labor Office, or with your County Agricultural Agent.





A crewman cuts open the glistening belly of the fish after it is pulled aboard. All the internal organs are thrown away except the liver, which brings as much as \$6.



The fish are washed with sea water after cleaning. The head, fins and tail have been cut off, leaving a clean chunk of swordfish meat. Now the fishermen start home.



**PACE-SETTER  
FOR FALL**

**BOSTONIAN**  
*Setter Red*

This fall you'll see a glorious, new color . . . Setter Red . . . on thousands of style-wise feet. Setter Red is masculine . . . correct. Richest, handsomest color you've seen in years!

Like all fine Bostonians, Setter Reds are custom-styled . . . and Walk-Fitted to give you comfort with every step. \$8.95 to \$12.50. Bostonian Shoes, Whitman, Mass.



**KENWOOD** — Smart plain-toe Oxford in rich Setter Red Calf. Sealed welt.

*Bostonians*

**FIT RIGHT • FEEL RIGHT**  **THEY'RE WALK-FITTED**



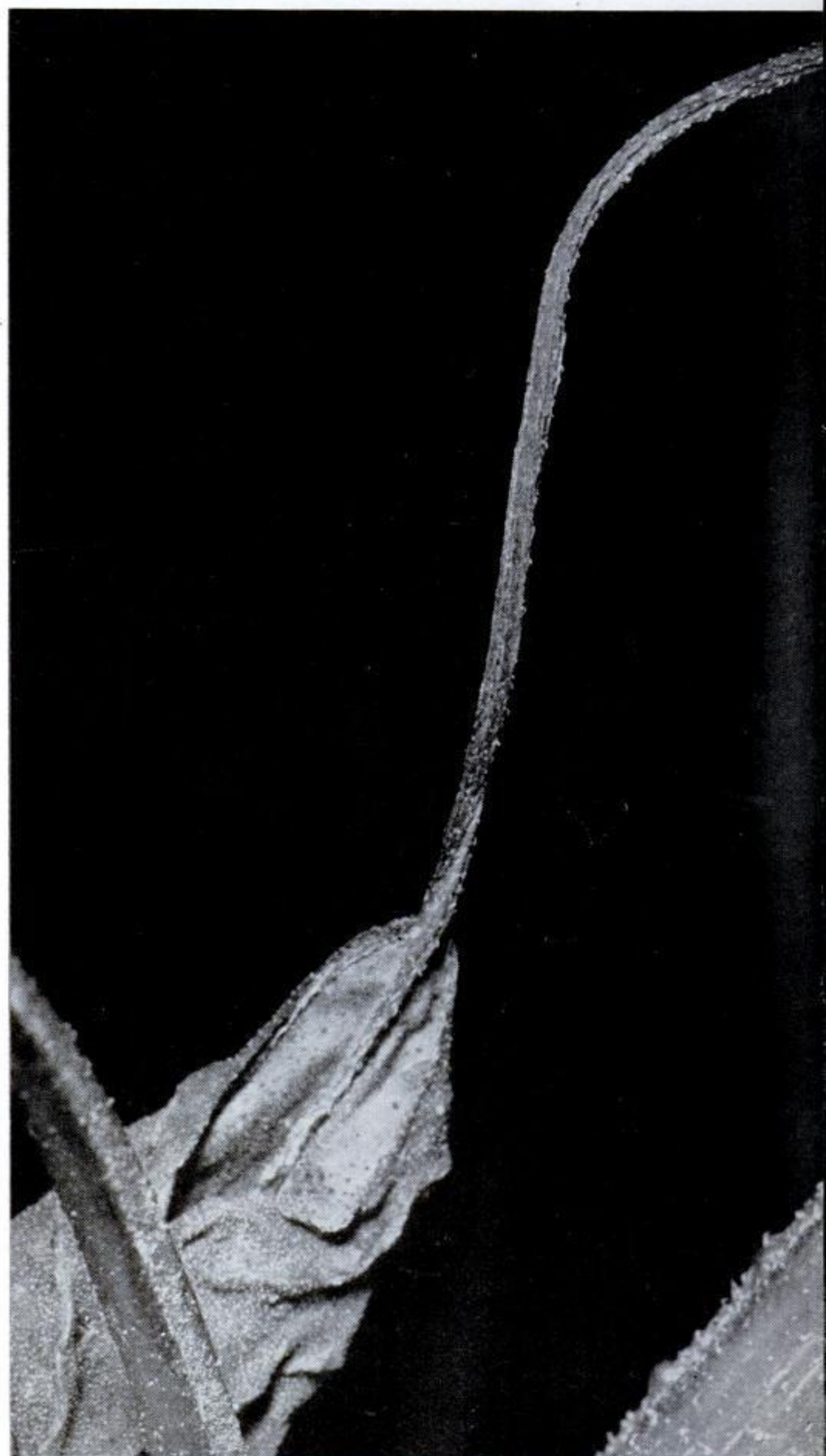


## GEMS FOR JUNIORS

### Treat Yourself to Figure Beauty

You know, so much depends on your bra, that's why it's so important to choose carefully. Remember, in Perma-Lift, the exclusive cushion insets at the base of the bra cups assure your permanent support, remain soft, yet firm through countless washings and wear. Wear it daily—wash it nightly—wilt it never. At all fine stores \$1.25 to \$2.50. Made by the makers of famous Hickory Juniors—Girdles and Panties—"The Foundation of Loveliness." Trust Perma-Lift and Hickory—trade marks that have stood the test of time.

A. STEIN & COMPANY • Chicago • New York



THIS GNARLED MASS OF CELLS ON THE STEM OF A SUNFLOWER IS A



To produce an artificial cancer a sunflower is inoculated with *tumefaciens* bacteria. Raised in culture (top), bacteria greatly accelerate the reproduction of normal cells.





6-WEEK-OLD CANCER. IT HAS CHOKED OFF THE GROWTH OF A SHOOT

## PLANT CANCER

Scientists study it to learn about human cancer

Cancer is a disease which affects plants as well as men and animals. Plant cancer usually appears as an ugly growth on trees and smaller plants. It is less dangerous to plants than animal cancer is to human beings but it still can do serious damage. It weakens the trunks and branches of orchard trees and willows and frequently hampers the growth of important crops like sugar beets.

Plant and animal cancers are alike in that both are just masses of confused cells which multiply without rhyme or reason. They differ mainly because of the basic difference between plants and animals. Plant cancers stay in one place because they cannot travel through cell walls or through primitive plant fluid-conducting systems. The worst damage they can do is to block the flow of plant fluids or to weaken tree trunks. Animal cancers, however, spread savagely through the body's circulatory and lymphatic systems, clogging capillaries and crowding into vital organs.

Because of the great difference in the effects of plant and animal cancer, plant cancer applies only to one field of research in human cancer: what makes cells run wild in the first place? Plant cancer experimenters like Dr. Michael Levine, whose cancerous garden at New York's Montefiore Hospital appears on these pages, know that plant cancers are caused when ordinary cells are stimulated by certain bacteria and irritating chemicals. They hope their work will help find the agents which cause human cancer.


CONTINUED ON NEXT PAGE



*Of course he wears a*



**VAN HEUSEN** *shirt*

The only shirt with the famous non-wilt Van Heusen collar attached (stays neat without starch). Sanforized and Laundry Tested—a new one free if your Van Heusen shirt shrinks out of size. Phillips-Jones Corp., N. Y. 1 • Shirts • Ties • Pajamas • Collars • Sportswear. 



# YELLO-BOLE

THE NATION'S  
PIPE

UM-M-M-M HONEY!



\$7.00

STANDARD  
"Billiard" Shape  
Actual Size of Pipe 5 1/4"

# HONEY

**cures your smoke**

A special honey-treatment (real bee's honey), first developed in 1933, created a new smoking enjoyment, and made these Yello-Bole Pipes the favorite brand of thousands of smokers. No "breaking-in" whatever is needed, as the honey cures the first smoke, and each succeeding smoke. Get a Yello-Bole today and enjoy the pleasant flavor and fragrance of it. Thousands go to the Armed Forces, but Yello-Boles are being supplied to dealers, too. Remember this if you can't get Yello-Bole immediately.

YELLO-BOLE STANDARD \$1

YELLO-BOLE IMPERIAL \$1.50

YELLO-BOLE PREMIER \$2.50

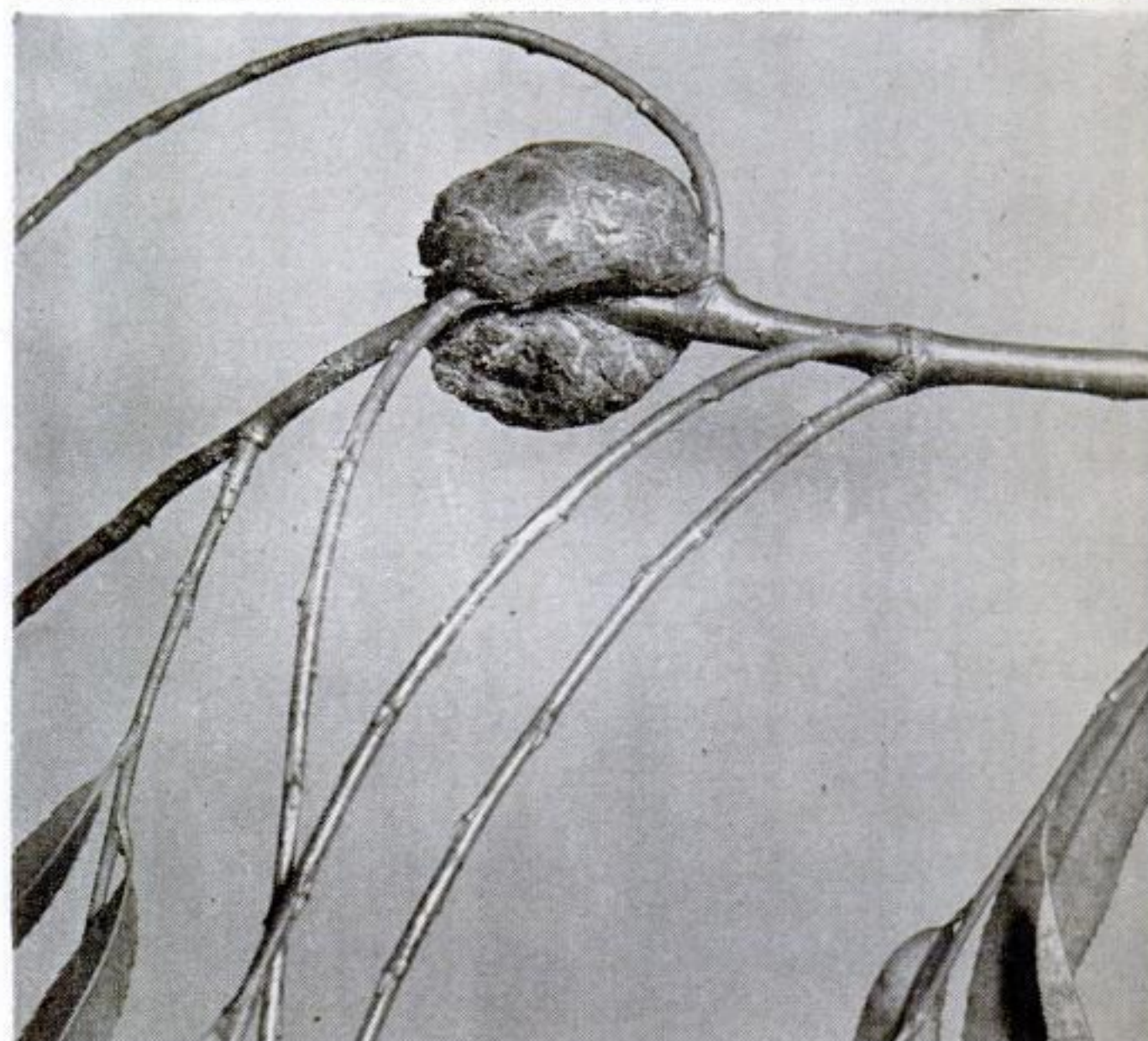


Take care of your pipe—  
Bee Pipe-Sweetener, 25¢

## Plant Cancer CONTINUED



Rose cancer grows in a hard ball ten weeks after stem has been inoculated with cancer-producing bacteria. Still healthy, rose will probably not be damaged by cancer.

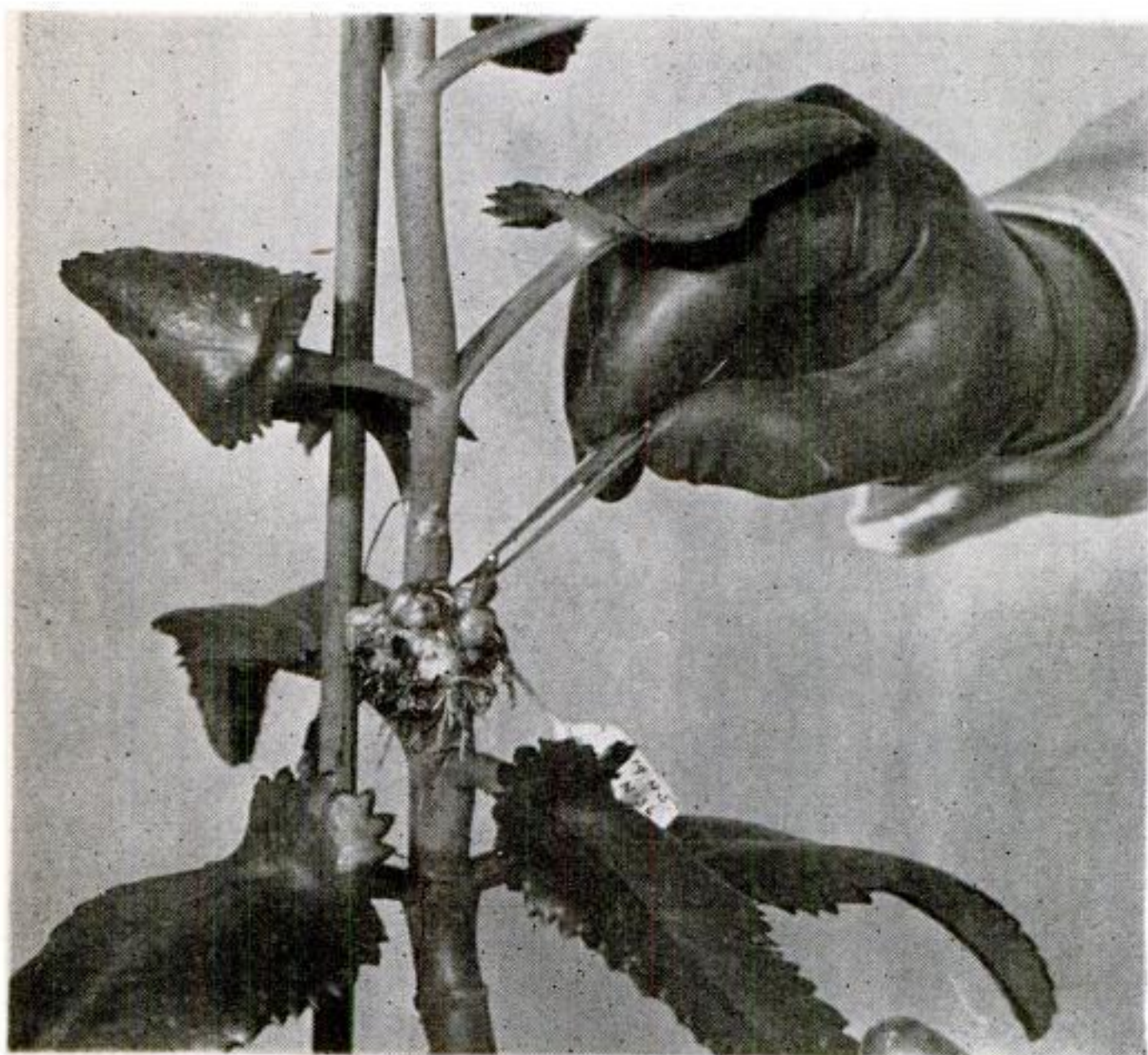


A willow cancer bulges almost all around a small branch. Willows are susceptible to cancers, which occasionally weaken willow trunks so they snap off in the wind.

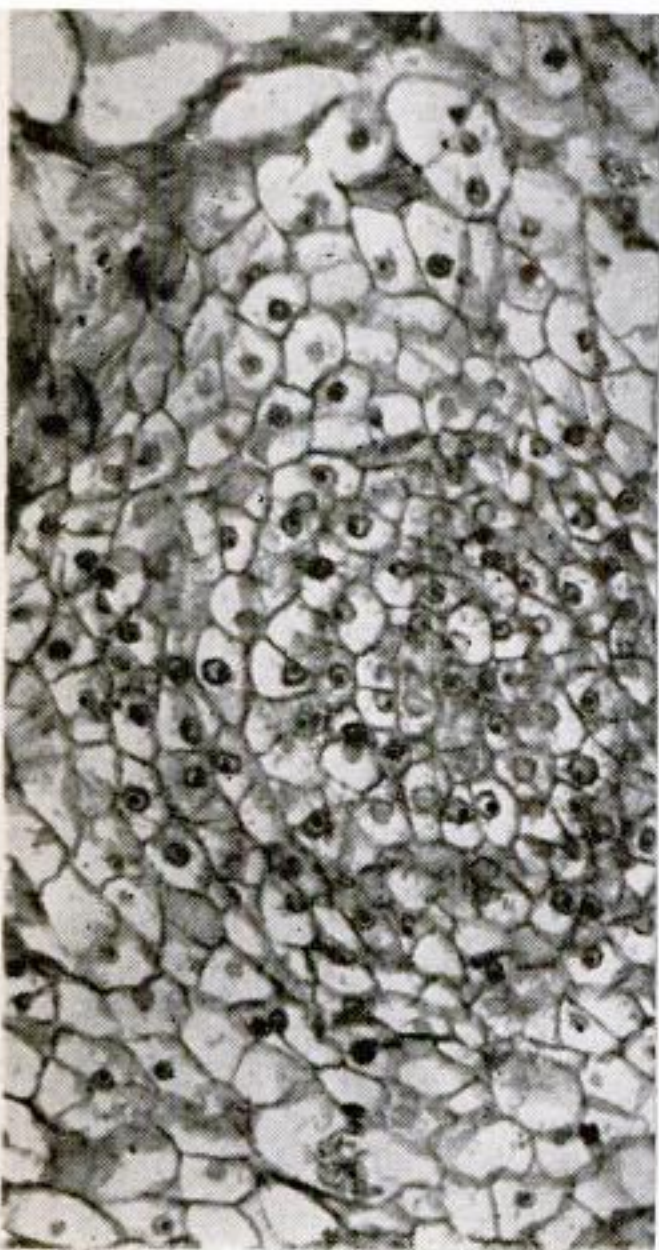


Tomato cancers are produced by both bacteria and chemicals, proving cancers are ordinary cells which run wild after being stimulated by any one of several methods.





An old plant cancer is treated by inserting a thin tube of radon, a radioactive gas. Like human cancers, plant cancers may be destroyed with radioactive emanations.



Plant and human cancers differ in how they spread. Cells of plant cancer (left) are localized by cell walls. Cells of human cancer (right) spread rapidly in moving fluids.



In his garden outside the Montefiore Hospital in New York, Dr. Michael Levine, who has studied cancerous plants for 32 years, looks over a bed of diseased sunflowers.



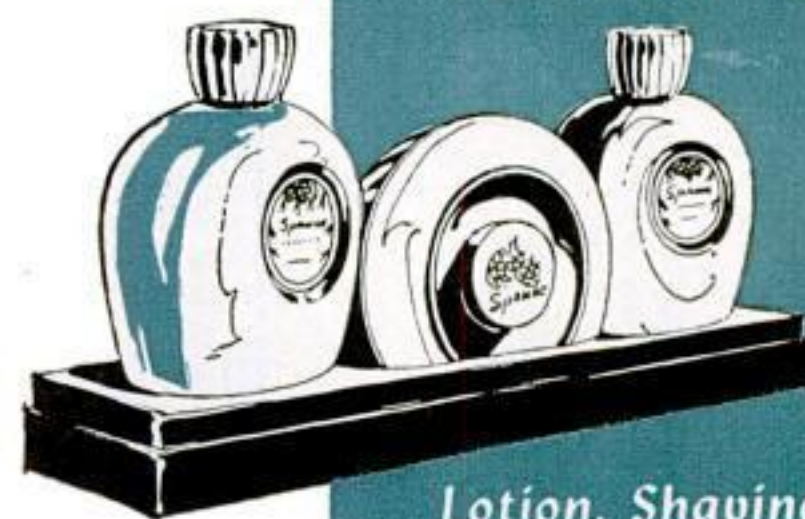
its masculine!



its smooth!



its cool!

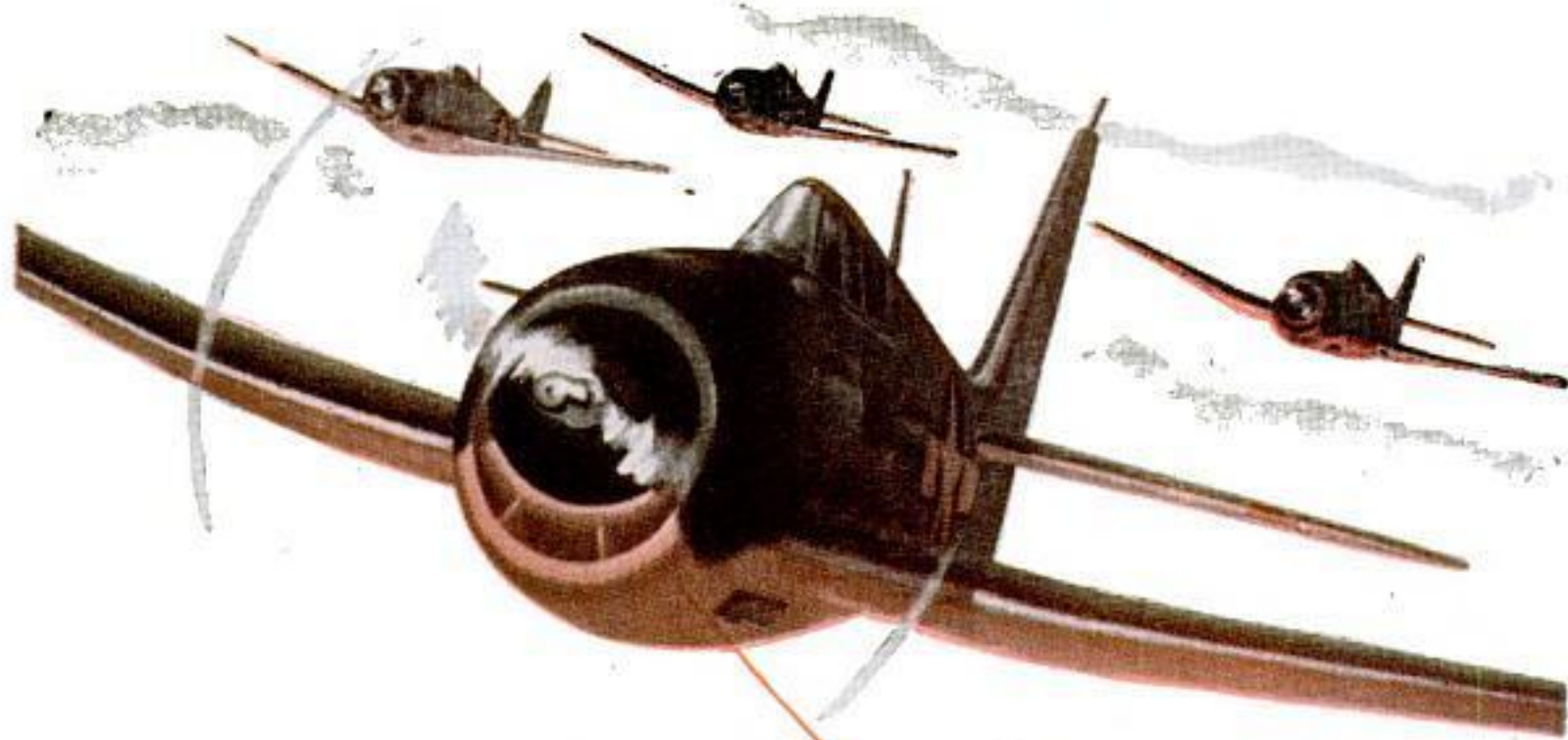


Lotion, Shaving  
Soap and Talc  
Gift Set . . . \$3.00

it's Spruce!

by Wrisley





## TOUGH PLANES AND TOUGH PILOTS NEED TOUGH SPARK PLUGS!

The Navy's great pilots loudly praise the tough fighting qualities of Grumman planes. Outstanding among them is the famous "Hellcat" more familiarly known as the "F6F." Needless to add the tough fighting qualities of the pilots themselves are the primary factor in the superb combat records they have compiled.

The combination has been unbeatable—the batting averages phenomenal. That's why we are proud indeed that Champion Spark Plugs have played their part in these ships, have been equal to fantastic extremes of service and dependable almost beyond belief.

The traditional dependability of Champion Spark Plugs has been put to every conceivable test in their unnumbered war assignments, bringing new prestige to their world-wide reputation. Today the Champions you buy for your present war-weary car are products of the same research and engineering, the same basic materials and manufacturing skill as those used in our most powerful aircraft engines. Naturally they insure an extra measure of performance, economy and dependability in your engine.



DEPENDABLE

# CHAMPION SPARK PLUGS

CHAMPION SPARK PLUG COMPANY, TOLEDO 1, OHIO



Buy More and More  
War Bonds Until  
the Day of Victory



NERVOUS WAVES GET LAST-MINUTE ENCOURAGEMENT FROM AN OFFICER

## WAVES GET DUMPED

Seabees give them a party with heavy machinery

When the WAVES celebrated its third birthday, the Seabees at Camp Parks, Calif. thought deeply about giving the local Waves contingent a suitable present. They decided that the finest possible present would be to initiate Waves into the ways of the Seabees. They invited a group of Waves over for the afternoon. For the less adventurous guests they had arranged an all-day program of softball, dancing, swimming meets, track meets, ice cream and cake, followed by dinner and a movie. But a few Waves selected for ruggedness and beauty were accorded special ceremonies. At first they were allowed to dig in the old-fashioned way with hand shovels, which the Seabees call "idiot spoons." After half an hour of steady digging they rested their blistered hands and were shown how the Seabees do things. Squealing with pleasure, the Waves took over a field full of mobile construction equipment and began to run bulldozers, rollers, graders, cranes, carryalls and tractors around while the terrified Seabees waited for accidents. The only real accident occurred during a dumping demonstration shown here, when one pretty Wave tried to hang onto the truck, finally let go and, while sliding down, parted company with her pants. After restitution had been made (*next page*) everybody went swimming.





BEFORE BEING DROPPED FROM THE STEAM-SHOVEL SCOOP INTO A TRUCK



Squirming Waves land in a tangled mass on a dirt pile as an unchivalrous Seabee in front seat suddenly dumps them out. Girl still in truck is about to lose her pants.

CONTINUED ON NEXT PAGE

# "Take a letter to G.I. Joe"



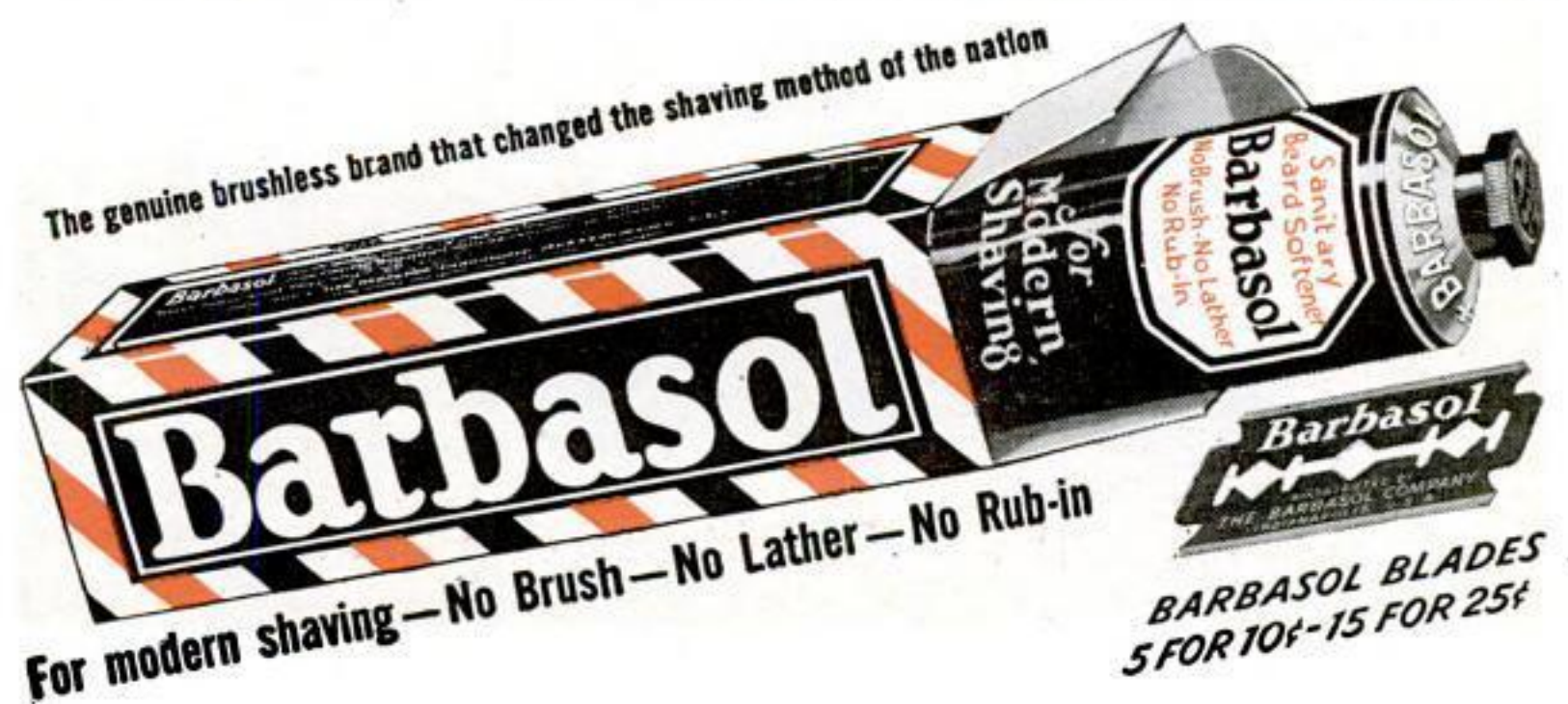
## Dear Joe:

Thanks for your letter and all the good things you say about Barbasol. It's one of the best we've had from fellows all over the world who have shaved in everything from arctic salt water to plain jungle sweat.

You speak of the big tube we sell to the boys in service for only a dime. Well, we don't mind losing a little money if we can help make you fellows more comfortable. Glad to know you will continue to use Barbasol for smoother, faster, finer shaving when you get home for good.

*Facially yours, all ways*  
**BARBASOL**

At all drugstores, tubes or jars. Large size, 25c. Giant size, 50c. Family size, 75c.





# "193,000 miles of Death Valley driving"



"...have one of the toughest stage runs in the United States over a 300-mile route in Death Valley.

...loads average over 3500 pounds. Schedule is six days a week the year around. Grades are steep and temperatures range from 140 degrees in summer to below freezing in winter.

...use a Chevrolet panel delivery truck...piled up 193,000 miles of Death Valley driving on Ring-Free oil. Only had two sets of rings installed...both times replacement wasn't really necessary.

...there was absolutely no hard carbon, no sludge accumulation, no apparent wear on any part, thanks to the thorough lubrication of Macmillan Ring-Free oil."

*Lloyd F. Harvey*

Yermo, California

*Above are excerpts of letter from Lloyd F. Harvey—one of a series of testimonial letters received from all parts of the United States.*

**Guaranteed\* performance.** Macmillan Ring-Free oil is guaranteed "to make your motor run smoother, give more miles per gallon of gasoline, reduce wear and repair"—or your money back.

Macmillan Ring-Free is made by the Macmillan patented refining process. No other oil is "just like" it!

\*According to a specific guarantee which your Macmillan Ring-Free dealer will show you.



BUY  
MACMILLAN RING-FREE  
where you see this Red sign  
35¢ A QUART

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## Waves Get Dumped CONTINUED



WAVES SHIELD PANTSLESS GIRL WHILE A SEABEE HANDS HER HIS SHIRT



SHE WRAPS THE SHIRT AROUND HER AS SUBSTITUTE FOR RUINED PANTS



CROWD BREAKS UP AS SHE WALKS AWAY CAREFULLY CLINGING TO SHIRT





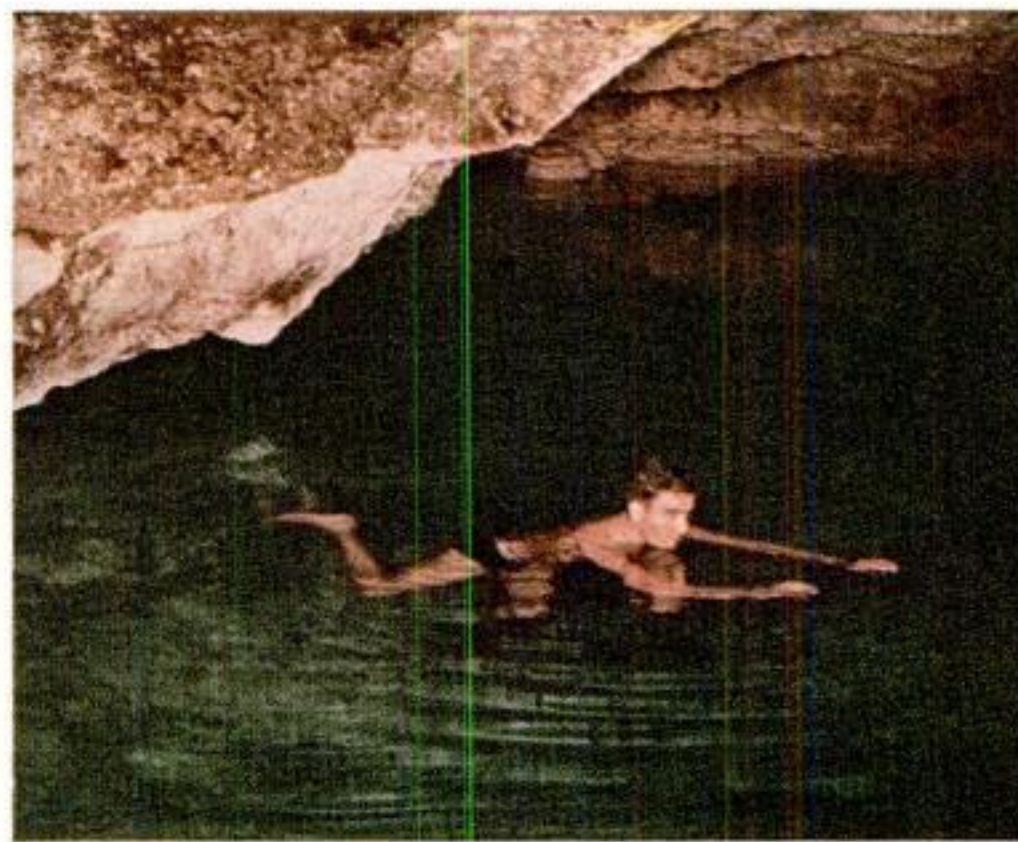
# Discovery in YUCATAN

1 "I literally stumbled on it," writes a friend of Canadian Club Whisky, "—a centuries-old, exquisitely carved Mayan ceremonial bowl. Holding it, I couldn't help wondering what mystic rites it had seen . . . what

secrets it could tell of that amazing Indian civilization whose story may never be fully revealed. That was in Yucatan last Spring while I was awaiting Clipper passage to New Orleans—now just 3½ hours away by air.



"The day had started out as a turkey hunt, but even the teeming game in this hunter's dream-land couldn't compete for my attention with the fascination of the ruins, the brooding, eerie land itself.



3 "One memorable experience was swimming in a cenote deep beneath the earth's surface. There are no surface streams or lakes in Yucatan. Swim here, and you *must* go underground (or to the beaches) . . .



4 "Winding up that day at an henequen plantation was an eye-widening experience too—eye-widening for two reasons: the fields of spiky henequen (source of rope and twine) stretching to the horizon and . . .



5 "The magnificent hacienda house dating back almost to Cortez! I felt I'd been transported back three hundred years—till I sipped a treat that's prized wherever civilized moderns meet. No mistaking its distinctive, one-of-a-kind flavor—Canadian Club!"

Even these days travelers tell of being offered Canadian Club all over the earth—often from a cherished pre-war supply. And why this whisky's worldwide popu-

larity? Canadian Club is *light* as scotch, *rich* as rye, *satisfying* as bourbon—yet there is no other whisky in all the world that tastes like Canadian Club. It is equally satisfying in mixed drinks and highballs; so you can stay with Canadian Club all evening long—in cocktails before dinner and tall ones after.

• That's why Canadian Club is the largest-selling imported whisky in the United States.

IN 87 LANDS NO OTHER WHISKY TASTES LIKE

## "Canadian Club"



Imported from Walkerville, Canada, by Hiram Walker & Sons Inc., Peoria, Ill. Blended Canadian Whisky. 90.4 proof

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DEFEND THE CONSTITUTION



*See what I mean!*  
**L.S./M.F.T.**



GERALD LEAKE

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